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TABLE OF CONTENTS

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TABLE OF CONTENTS

I.	INTRODUCTION1.0
II.	PROGRAM MAIN (Pre-Real-Time)2.0
III.	PROGRAM MAIN (Post-Real-Time)3.0
IV.	SUBPOUTINE FLIGHT AND REALT4.0
v.	REAL-TIME I/O5.0
VI.	SUBROUTINE KSCALE6.0
VII.	SUBROUTINE MISCOM7.0
VIII.	SUBROUTINE GUID8.0
IX.	SUBROUTINE INIT9.0
APPENDIX	A. STINGER CODEA.0
APPENDIX	B. STRUCTURED MAIN AND SUBROUTINE INITB.0
APPENDI)	C. CODE FOR TESTING ADCS AND DACSC.0

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WIE		ection
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MANGE UND	ED	0
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Jer.	darm	150
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	AVAIL. MAG	- SPIGIAL
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LIST OF FIGURES

FIGURE 2.1	DATA CARDS OR DDS DATA INPUT2.1
FIGURE 2.2	SOME POSSIBLE CONFIGURATIONS OF \overline{V} AND \overline{W} 2.10
FIGURE 2.3	RELATIONSHIP OF \overline{V} AND \overline{W} TO \overline{V}_{T} AND \overline{L}_{OS} 2.11
FIGURE 4.1	FLOW CHART FOR SUBROUTINE FLIGHT4.1
FIGURE 4.2	FLOW CHART FOR SUBROUTINE REALT4.3
FIGURE 4.3	PLUME TRANSPARENCY
FIGURE 4.4	PLUME APPARENT LENGTH AND ASPECT ANGLE4.13
FIGURE 4.5	AREA OF PLUME TRANSPARENCY4.15
FIGURE 4.6	APPARENT TARGET PLUME AS SEEN FROM THE MISSILE SEEKER4.17
FIGURE 4.7	EXHAUSTION OF GENERAL CONFIGURATIONS FOR $\overline{L}_{ extsf{os}}$ AND $\overline{ extsf{c}}$ 4.18
FIGURE 4.8	ALTITUDE OF TARGET ABOVE SEA LEVEL4.20
FIGURE 4.9	VARIABLE ANALOG SCALE FACTOR4.26
FIGURE 5.1	DISCRETE CIRCULATION5.1
FIGURE 5.2	AD/4 DISCRETE TRUNK LINE CONNECTIONS5.2
FIGURE 5.3	ANALOG SIGNAL CIRCULATION5.7
FIGURE 5.4	AD/4 TRUNKLINE PATCHING5.8
FIGURE 6.1	SIMPLIFIED GEOMETRY FOR ESTIMATING TARGET MISSILE INTERCEPT6.2

LIST OF FIGURES (Con't.)

FIGURE 6.2	TYPICAL TARGET/MISSILE POSITION AT TIME $t = t_0$ and $t = t'$ 6.3
FIGURE 6.3	
FIGURE 6.4	SELECTION CRITERIA FOR y min
FIGURE 6.5	CONVERGING SEARCH FOR t' AT 1000 FT TO GO6.6
FIGURE 6.6	CONVERGING SEARCH FOR Ymin6.7
FIGURE 6.7	VELOCITY VS. TIME FOR NOMINAL STINGER TRAJECTORY6.8
FIGURE 6.8	DISTANCE VS. TIME FOR NOMINAL STINGER TRAJECTORY6.9
FIGURE 7.1	OVERVIEW OF SUBROUTINE MISCOM
FIGURE 7.2	GENERALIZED TARGET COORDINATE SYSTEM7.2
FIGURE 7.3	TAILPIPE TARGET FIXED AND TARGET FIXED COORDINATE SYSTEM RELATIONSHIP
FIGURE 7.4	PROJECTION OF MISSILE TRAJECTORY ONTO X' - Y' PLANE AND X' - Z'F PLANE
FIGURE 7.5	ISOMETRIC PROJECTION OF MISSILE TRAJECTORY PIERCING POINTS IN TARGET FIXED COORDINATES

LIST OF TABLES

TABLE 2.1	DESCRIPTION OF MAIN PROGRAM SYMBOLS (Pre-Real-Time)2.14
TABLE 3.1	DESCRIPTION OF MAIN PROGRAM SYMBOLS (Post-Real-Time)3.2
TABLE 4.1	DESCRIPTION OF PROGRAM SYMBOLS FOR SUBROUTINE FLIGHT AND REALT4.27
TABLE 5.1	DISCRETE SIGNALS FROM AD/4 TO CDC/66005.3
TABLE 5.2	DISCRETE SIGNALS FROM AD/4 TO IRSS5.4
TABLE 5.3	DISCRETE SIGNALS FROM IRSS TO AD/45.5
TABLE 5.4	DISCRETE SIGNALS FROM CDC/6600 TO AD/4 OR IRSS5.6
TABLE 5.5	AD/4 - CDC/6600 ADC ASSIGNMENT5.9
TABLE 5.6	AD/4 - CDC/6600 DAC ASSIGNMENT5.11
TABLE 5.7	COMMANDS TO IRSS/95.13
TABLE 5.8	COMMANDS TO IRSS/95.14
TABLE 5.9	IRSS/23 TO AD/4 (Seeker outputs)5.15
TABLE 5.10	AD/4 TO CDC/66005.16
TABLE 6.1	DESCRIPTION OF SYMBOLS FOR SUBROUTINE KSCALE6.10
TABLE 7.1	DESCRIPTION OF VARIABLES IN SUBROUTINE MISCOM7.10
TABLE 8.1	DESCRIPTION OF SYMBOLS IN SUBROUTINE GUID8.1
TABLE 9.1	DESCRIPTION OF SYMBOLS IN SUBROUTINE INIT9.4

I. INTRODUCTION

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I. INTRODUCTION

This report contains selected documentation of the MICOM real-time STINGER simulation. Sections II and III describe the MAIN program which serves as a driver for pre- and post-real-time computation, respectively. Other codes which support these computations are presented in Sections VI, VII, VIII, IX. The real-time computations are performed by Subroutines FLIGHT and REALT which are documented in Section IV. The interconnection of various computation elements is described in Section V which is titled Real-Time I/O.

In Appendix A the aforementioned code is presented. Then, in Appendix B a restructured version is given. The restructured documentation can be of considerable value. However, this value will only be realized from future development.

II. PROGRAM MAIN (PRE-REAL-TIME)



II. PROGRAM MAIN (Pre-Real-Time)

Program MAIN provides both pre- and post-real-time functions. However, for purpose of documentation, program MAIN will be treated as two separate pieces of code dealing with pre- and post-real-time functions. In this section, pre-real-time computations performed by program MAIN are documented. Portions of program MAIN not included in this section are discussed in the next section.

Functionally, program MAIN serves to connect on a macroscopic level several physically separateable modules of code. In some cases however, computer implementation does not lead to a strictly modular code. Therefore, some portions of program MAIN involve the micro-codes which are, in concept, portions of other major modules.

Non-real time data input to the STINGER digital computer program is organized into three distinct levels. These three levels of data input are related to frequency of data change during normal simulation activities. Specifically, data can be input to the program in the following ways.

- Data card or DDS commands
- Block Data
- Inline computer code

Data input via block data or inline computer code requires careful attention to the particular code affected. Pre-programmed diagnostics and informative printout will not generally reveal errors in such modifications.

More information concerning pre-real time data processing is contained in the Sections titled SUBROUTINE KSCALE, INIT, and GUID.

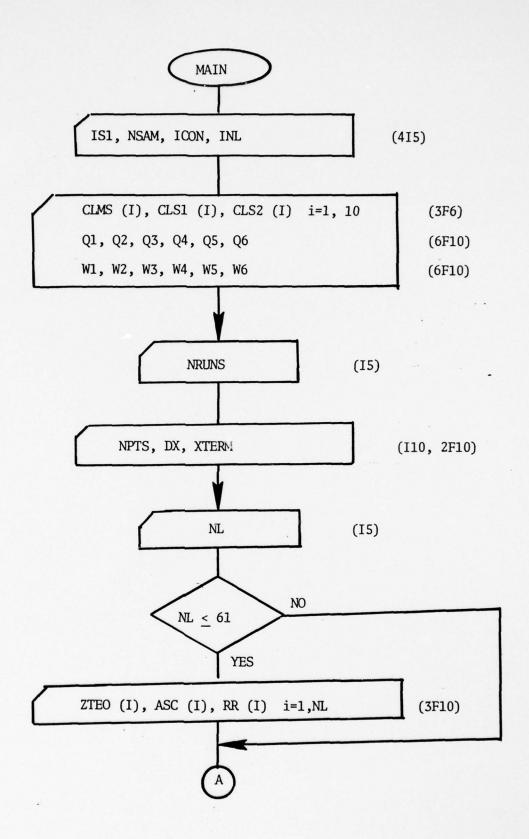
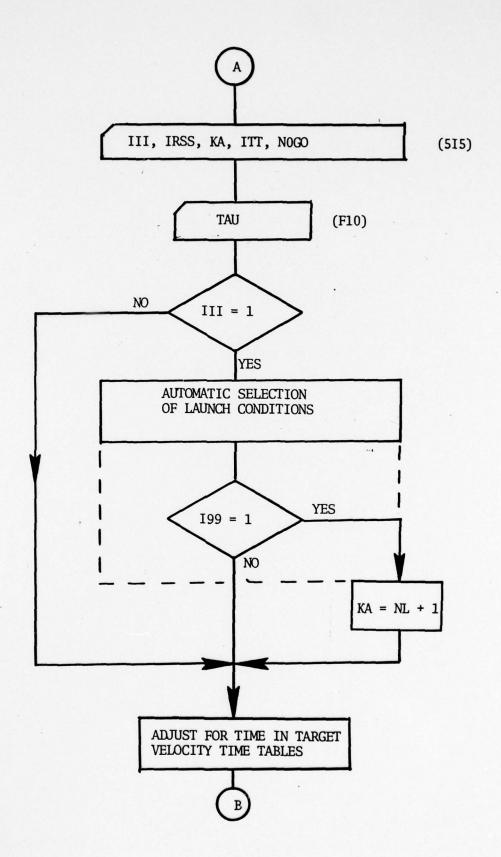
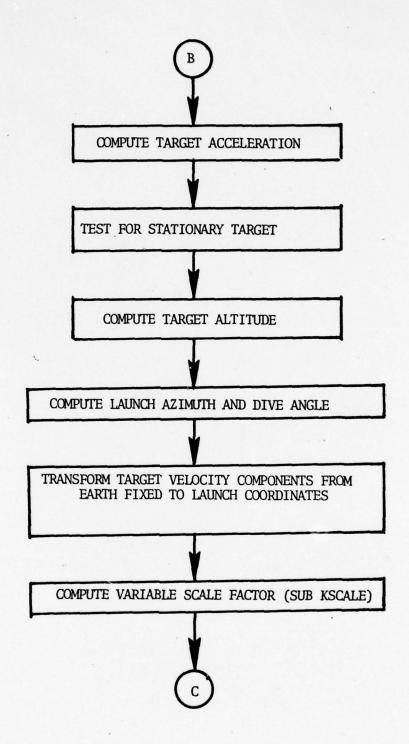
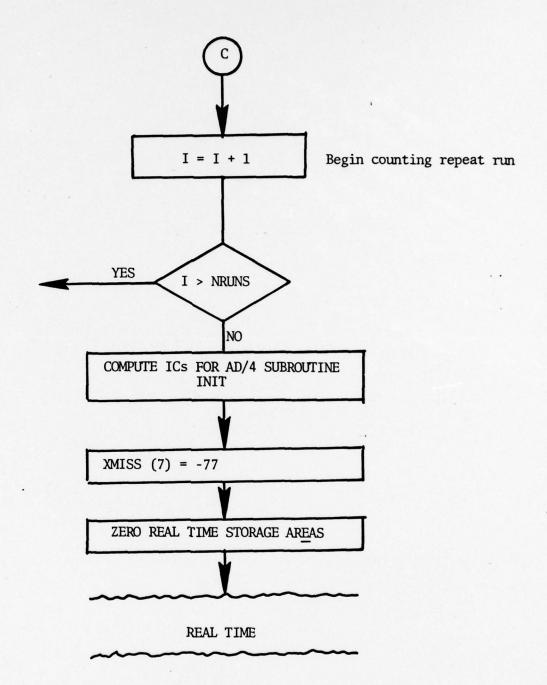


FIGURE 2.1 DATA CARD OR DDS DATA INPUT







TARGET ACCELERATION

$$\dot{X}_{TE}(i) = \dot{X}_{TE}(i+1) - \dot{X}_{TE}(i), i = 1, 27$$
 $\dot{Y}_{TE}(i) = \dot{Y}_{TE}(i+1) - \dot{Y}_{TE}(i), i = 1, 27$
 $\dot{Z}_{TE}(i) = \dot{Z}_{TE}(i+1) - \dot{Y}_{TE}(i), i = 1, 27$

NOTE: ΔT , the time between samples in the target velocity tables, is assumed to be one second.

TEST FOR STATIONARY TARGETS

$$VVVV = \sqrt{\dot{x}_{TE}^2(0) + \dot{y}_{TE}^2(0) + \dot{z}_{TE}^2(0)}$$

VVVV > 338 FT/SEC → moving target

VVVV < 338 FT/SEC → stationary target

TARGET ALTITUDE

$$h_{asL} = h + \Delta h$$

where Ah is altitude of launch point above sea level

ADJUSTMENT FOR TIME IN TARGET VELOCITY - TIME MANEUVER TABLES

Target velocity-time maneuver tables are shifted in time by the parameter TAU. Setting TAU to a positive real value causes the target trajectory time = TAU and real time = 0 to coincide. Therefore the portion of the target maneuver tables between time = 0 and time = TAU is disregarded. The end of the target maneuver tables is filled with a constant velocity maneuver, i.e., the portion of the trajectory between time = 27-TAU and time = 27 seconds. For TAU = 0 there is no shift in the target velocity - time maneuver tables.

EXAMPLE: TAU = 2.5

TM(I)	XDEM (J, ITT)	TMA(I)	XDM(I)	
0	XDEM(1,ITT)	5	XDEM (3,ITT)	+t=0
1	XDEM (2,ITT)	,5	XDEM (4, ITT)	
2	XDEM(3,ITT)	1.5	XDEM (5,ITT)	
	•			
			•	
23	XDEM(23,ITT)	22.5	XDEM (26, ITT)	
24	XDEM (24, ITT)	23.5	XDEM (26, ITT)	
25	XDEM (25, ITT)	25.0	XDEM (26, ITT)	
26	XDEM (26, ITT)	26.0	XDEM (26, ITT)	

LAUNCH AZIMUTH AND DIVE ANGLE

Calculation of launch angle and dive angle are based upon the following definitions and conventions:

V - Projection of target initial velocity vector on to the X - Y plane

 \overline{W} - Projection of initial \overline{L}_{OS} vector \underline{in} the X_E - Y_E plane β - Angle from positive X_E - \underline{axis} to \overline{V} (positive clockwise) Σ_{O} - Crossing angle = angle from \overline{V} to \overline{W} (positive clockwise)

 ψ_L- The angle from positive X $\underline{}$ - axis to the vector from the origin to target (note this is just -W)

From the above definitions $\Sigma_0 + \beta$ is the angle from positive X_E - axis to vector W. Then, since -W is in opposite direction from W, the angle ψ_L differs from Σ_0 + β by 180 degrees. Therefore

$$\psi_{L} = \Sigma_{O} + \beta \pm 180^{O}$$

Here ψ_{I} is chosen base on whichever sign yields a positive value.

Based upon the value of $X_{1}(0)$ and $Y_{2}(0)$ the value of $\psi_{1}(0)$ is determined via four special computational rules. Note that the case $X_{TL}(0) \neq 0$ and $Y_{TL}(0) = 0$ is excluded from consideration and should not appear in candidate trajectories. The four computational rules as they are categorized in the computer code are:

CASE 1

$$\beta = \tan^{-1} (X_{TE}(0)/Y_{TE}(0))$$

$$ψ_L = Σ_0 + β - 180^{\circ}$$
, $ψ_L(0)$ is determined by whichever
$$Σ_0 + β + 180^{\circ}$$
 quantity is positive

SEO = (see computation in Subroutine INIT)

CASE 2

$$\frac{\dot{x}_{TE}(0)}{0} \qquad \frac{\dot{y}_{TE}(0)}{>0}$$

$$\psi_L(0) = \Sigma_0 + \beta - 180^{\circ}$$
, $\psi_L(0)$ is determined by whichever
 $\Sigma_0 + \beta + 180^{\circ}$ quantity is positive

SEO = (see computation in Subroutine INIT)

CASE 3

$$\beta = 270^{\circ}$$

$$ψ_L(0) = Σ_0 + β - 180^0$$
 $ψ_L(0)$ is determined by whichever
$$Σ_0 + β + 180^0$$
 quantity is positive

SEO = (see computation in Subroutine INIT)

CASE 4

$$\dot{X}_{TE}(0)$$
 $\dot{Y}_{TE}(0)$ and $Z_{TE}(0) = 0$
 $\dot{Y}_{TE}(0)$ $\dot{Y}_{TE}(0)$ and $\dot{Y}_{TE}(0) = 0$
 $\dot{Y}_{TE}(0)$ \dot{Y}

CASE 4b

x _{TE} (0)	Y _{TE} (0)
0	0
>0	0)Computer implementation does not
<0	0}take care of these two cases

$$\psi_{\mathbf{L}}(0) = 0$$

SEO = 90°

For vertical target trajectory crossing angle is not applicable, program sets KKK = 1

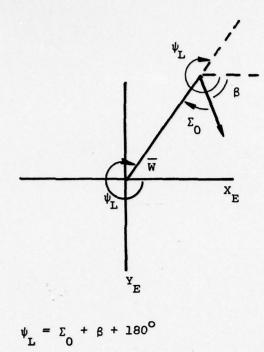
CASE 4c

х _{те} (0)	Y _{TE} (0) and Z _{TE} < 0
0	0
>0	0}Computer implementation does not
<0	0}take care of these two cases

$$\psi_{L}(0) = 0$$

SEO =
$$-90^{\circ}$$

For vertical target trajectory crossing angle is not applicable, program sets KKK = 1

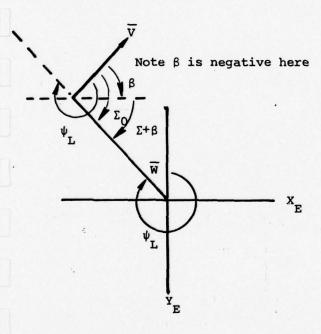


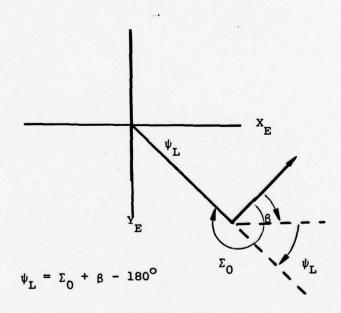
$$\psi_{L} = \Sigma_{0} + \beta + 180^{\circ}$$

$$\chi_{E}$$

$$\chi_{E}$$

$$\psi_{L}$$

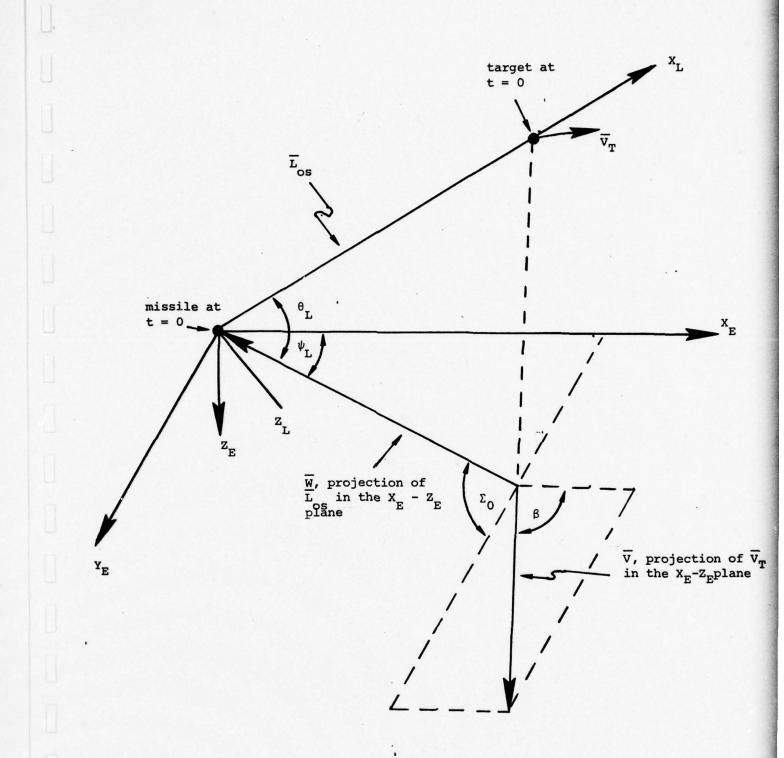




 $\psi_{T} = \Sigma_{O} + \beta + 180^{\circ}$

SOME POSSIBLE CONFIGURATIONS OF \overline{V} AND \overline{W}

FIGURE 2.2



RELATIONSHIP OF \overline{v} AND \overline{w} TO \overline{v}_T AND \overline{L}_{OS}

TRANSFORMATION OF TARGET VELOCITY COMPONENTS FROM EARTH FIXED TO LAUNCH COORDINATES

$$\begin{bmatrix} \mathbf{X}_{\mathrm{TL}}(0) \\ \mathbf{Y}_{\mathrm{TL}}(0) \\ \mathbf{Z}_{\mathrm{TL}}(0) \end{bmatrix} \begin{bmatrix} \cos\theta_{\mathrm{L}} \cos\psi_{\mathrm{L}} & \cos\theta_{\mathrm{L}} \sin\psi_{\mathrm{L}} & -\sin\theta_{\mathrm{L}} \\ -\sin\psi_{\mathrm{L}} & \cos\psi_{\mathrm{L}} & 0 \\ \sin\theta_{\mathrm{L}} \cos\psi_{\mathrm{L}} & \sin\theta_{\mathrm{L}} \sin\psi_{\mathrm{L}} & \cos\theta_{\mathrm{L}} \end{bmatrix} \begin{bmatrix} \mathbf{X}_{\mathrm{TE}}(0) \\ \mathbf{Y}_{\mathrm{TE}}(0) \\ \mathbf{Z}_{\mathrm{TE}}(0) \end{bmatrix}$$

where
$$\theta_L = \theta_L(0)$$

 $\psi_L = \psi_L(0)$

This transformation is performed in Subroutine GUID

RANGE TABLE GENERATION

The range-table is generated for use as a data collection tool during real time simulation. The range table is a set of relative missile minus target positions along the ${\rm X_L}$ axis at which data collection should be performed. Generation of the range table follows from specification of

XTERM, the last data point to be collected

DX, the distance between data points

NPTS, number of data points desired

Provided analog scaling permits the collection of NPTS points, this is done. Otherwise, the program automatically reduces the value of NPTS until analog scaling requirements are satisfied. The new value of NPTS is stored for later usage as NADJ.

The rule for reducing NPTS to a final value of NADJ is given below

NADJ = NPTS, if DIF > 0 NPTS - truncated value of (DIF/DX)-1, if DIF \leq 0

Here DIF is defined as the difference between the data collection distance commanded and the largest data collection distance possible with the analog scaling given. DIF can be computed as follows

DIF = {XTERM + (NPTS-1)DX} - { (Analog Scale Factor) (Largest Voltage) }
1 + Y

TABLE 2.1 DESCRIPTION OF MAIN PROGRAM SYMBOLS (Pre-Real-Time)

PROGRAM SYMBOL	VARIABLE	DESCRIPTION
IS1*		Print flag, IS1 ≠ 1 indicates print is desired.
NSAM*		Quality control test case sample size 2 < NSAM < 11
ICON*		Automatic or manual launch set selection (ICON = 1 implies automatic, ICON = 2 implies manual)
INL*		Number of first launch set desired in automatic mode, 1 < INL < 60
CLMS(I)*		
CLS1(I)*		Was 1 is a second of the second of
CLS2(I)*		Used in computation of quality control limits. For further information see
Q1, Q2,Q6*		SUBROUTINE QCLIM
W1, W2,W6*		
NRUNS*		Number of runs (NRUNS < 20)
NPTS*		Number of data points to be collected in real time
DX*		Distance between real-time data collection points (FT)
XTERM*		Distance between target and missile at last data collection point (FT)
NL*		NL + 1 is number of launch sets to be read from data cards, if NL > 61
ZTEO(I)*		Launch set target altitude in earth fixed coordinates (FT) (Note: printout shows - ZTEO(I))
ASC(I)*	Σ ₀	Launch set target crossing angle table, measured positive clockwise from \overline{V} to \overline{W} (DEG)

^{*}Data input from card reader

PROGRAM SYMBOL	VARIABLE	DESCRIPTION
RR(I)*	R _i	Launch set target initial range table (FT) (distance measured along the line of sight)
III*		Flag for automatic selection of target trajectory III = 1, for manual selection set III ≠ 1.
IRSS*		Flag, IRSS simulation requires IRSS = 1, for MICOM Hybrid set IRSS \neq 1.
KA*		Index of target launch set. This is used in manual mode, i.e., III = 1
ITT*		Trajectory number, ITT = 1 selects a stationary target. In general 1 < ITT < 45
NOGO*		
TAU*	τ	A parameter which selects a portion of the target velocity-time manuever table for use in the simulation. This parameter shifts time forward TAU seconds and disregards all manuever information between time = 0 and time = TAU. Note: 0 < TAU < 27. With TAU = 0 the manuever tables are unchanged. (SEC)
ZABOVE	Δh	Altitude of missile above sea level at t = 0
RTD		Conversion factor for radians to degrees
DTR		Conversion factor for degrees to radians
RLBK	L/B	L/B, actual plume ratio of length to breadth
NT		Length of the trajectory time and velocity tables (currently NT = 27)
TMAS(K)		Adjusted target time, see definition of τ

^{*} Data input from card reader

PROGRAM SYMBOL	VARIABLE	DESCRIPTION
199		Flag, if the current launch set number is a multiple of five or if this is the first launch set then I99 = 1. Otherwise I99 = 0
188		Flag, if this is last launch set in automatic selection sequence I88 = 1, otherwise I88 = 0
XE(I)	x _{TE}	
YE(I)	Y _{TE}	Target acceleration tables, derived from target velocity tables.
ZE(I)	ż _{TE}	
Z	Z _{TE} (0), h	Specific launch altitude (from launch set table ZTEO
ZZZ, ZALT	h _{asL}	Specific target altitude in earth fixed coordinates + altitude of missile launch site above sea level (FT)
AS	Σ0	Specific launch crossing angle (from launch set table ASC(I)
R	$^{\mathrm{R}}{}_{\mathbf{i}}$	Specific launch initial range (from launch set table RR(I)
XD	X _{TE} (o)	
YD	Ý _{TE} (0)	Initial target velocities in earth fixed coordinate system
ZD	ż _{TE} (0)	
ASCO	$^{\psi}$ L	Angle from positive X _F - axis to the
	Б	vector from origin to target (note this is just -W)
sco	$\psi_{\mathbf{L}}$	$\psi_{ m L}$ in DEG
so	$\theta_{\mathbf{L}}$	Initial elevation angle of target (RAD)
ASO	θL	θ _L in DEG

PROGRAM SYMBOL	VARIABLE	DESCRIPTION
х	X _{TE} (0)	X and Y components of \overline{L}_{os} in earth
Υ	Y _{TE} (0)	fixed coordinate system
SINSO	$\sin(\theta_L)$	
COSSO	$\cos(\theta_L)$	
SINSCO	$sin(\psi_L)$	
COSSCO	$\cos(\psi_L)$	
S2	$\cos(\theta_{L})\cos(\psi_{L})$	
S3	$\sin(\theta_{L})\cos(\psi_{L})$	
S4	$\cos(\theta_{\mathrm{L}})\sin(\psi_{\mathrm{L}})$	
S5	$\sin(\theta_{L})\sin(\psi_{L})$	
SPL	$\sin(\psi_{ extsf{L}})$	
CTL	$\cos(\theta_{L})$	
CPL	$\cos(\psi_L)$	
STL		$sin(\theta_L)$
KKK		$KKK = 0, if Y_{TE}(0) \neq 0$
	7	1, if $Y_{TE}(0) = 0$
vvvv	V _T (0)	Initial velocity of target
XDTGO	х _{ть} (0)	
YDTGO	Ý _{TL} (0)	Components of target velocity in launch coordinates
ZDTGO	Ž _{TL} (0)	
SEO		Dive angle (Note: some cases are computed in SUBROUTINE INIT)

III. PROGRAM MAIN (POST-REAL-TIME)



III. PROGRAM MAIN (Post-Real-Time)

The post-real-time portion of the STINGER code provides an estimate of miss distance, lethality and simulation quality. In addition, the post-real-time code contains portions of the repeat run (rep-op) logic.

In general, the analysis in post-real-time data will contain the following events:

- If nonstationary target, calculate Euler angles for transformation from launch-to-target fixed coordinates
- Calculate the least square missile approach trajectory from collected A/D data and project miss distance information
- If the target is a high speed jet, perform a lethality test with the probability-of-kill model
- Repeat the simulated flight 20 times and obtain average PK, mean, and standard deviation of miss distance information
- Give control to pre-real time part for next simulation

More information concerning post-real-time data processing is contained in the Section titled SUBROUTINE MISCOM.

TIME CRITICAL DATA COLLECTION TEST

This test is performed to verify that each value of X_{ML} - X_{TL} collected in real-time corresponds to a value in the range-to-go tables. The test is performed by testing each point collected as

$$XX_{i} \leq (X_{ML} - X_{TL})_{i} \leq XX_{i} + DX, i = 1, NADJ$$

where XX_i is the i'th entry in the pre-computed range-to-go table and $(X_{ML}-X_{TL})_i$ is the actual data point collected.

If time critical data collection failure is detected a diagnostic message is printed.

TABLE 3.1 DESCRIPTION OF MAIN PROGRAM SYMBOLS (Post-Real-Time)

PROGRAM SYMBOL	VARIABLE	DESCRIPTION
NADJ		The actual number of data collection points in real-time
XMISS(7)		
PPX(I)	X _{ML} -X _{TL}	
PPY(I)	Y _{ML} -Y _{TL}	
PPZ(I)	Z _{ML} -Z _{TL}	
TIME(I)	t	Real time data collection points
VMX(I)	\dot{x}_{ML} - \dot{x}_{TL}	
VMY(I)	Y _{ML} -Y _{TL}	
VMZ(I)	Z _{ML} -Z _{TL}	
XX(I)		Range-data collection table generated by SUBROUTINE INIT
LEVEL		Status of maneuver, -7 implies not in real-time, 0 implies in real-time, +7 implies target trajectory table exceeded
ITT		Target trajectory number, note: ITT = 1 is a stationary target
vvvv	V _T (0)	Initial target velocity
IS1		Print flag, IS1 ≠ 1 indicates print is desired
XMAN(1,I)	t	Target maneuver velocity and time
XMAN(2,I)	\dot{x}_{TL}	tables at range table data collection point (See MAN(J,I) in SUBROUTINE REALT)
XMAN(3,I)	Ϋ́ΤL	
XMAN(4,I)	ż _{TL}	

PROGRAM SYMBOL	VARIABLE	DESCRIPTION
XM(1),YM(1),ZM(1)		Missile trajectory peircing point in Y' _F - Z' _F plane
XM(2), YM(2), ZM(2)		Missile trajectory piercing point in X' - Y' plane
XM(3),YM(3),ZM(3)		Missile trajectory piercing point in X' _F - Z' _F plane
RM(1)		Nearest approach of missile trajectory to origin in the Y' _F - Z' _F plane
RM(2)		Nearest approach of missile trajectory to origin in the X' _F - Y' _F plane
RM(3)		Nearest approach of missile trajectory to origin in the $X_F^{f r}$ - $Z_F^{f r}$ plane
AXM(ICN)		
AYM(ICN)		Storage arrays for ICN'th repeat run, where ICN varys from 1 to
AZM(ICN)		NRUNS. The computer variables correspond to XM(1), YM(1), ZM(1)
ARM(ICN)		and RM(1) respectively
AXB(ICN)		
AYB (ICN)		Storage arrays for ICN'th repeat run, where ICN varys from 1 to NRUNS. The computer variables correspond to XM(2), YM(2), ZM(2) and RM(2) respectively
AZB(ICN)		
ARB(ICN)		
AXC(ICN)		
AYC(ICN)		Storage arrays for ICN'th repeat run, where ICN varys from 1 to
AZC(ICN)		NRUNS. The computer variables correspond to XM(3), YM(3), ZM(3)
ARC (ICN)		and RM(3) respectively

PROGRAM SYMBOL	VARIABLE	DESCRIPTION
YA	^a 1	See equations in SUBROUTINE MISCOM
ZA	a ₂	See equations in SUBROUTINE MISCOM

IV. SUBROUTINE FLIGHT AND REALT

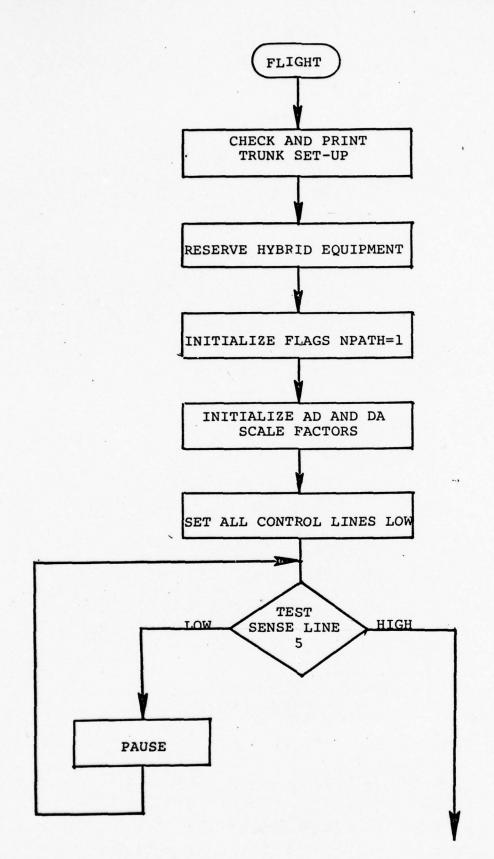


IV. SUBROUTINE FLIGHT AND REALT (Real-Time)

This section contains a description of Subroutines required during real-time operation of the MICOM Hybrid STINGER simulation. The documentation is provided in three parts:

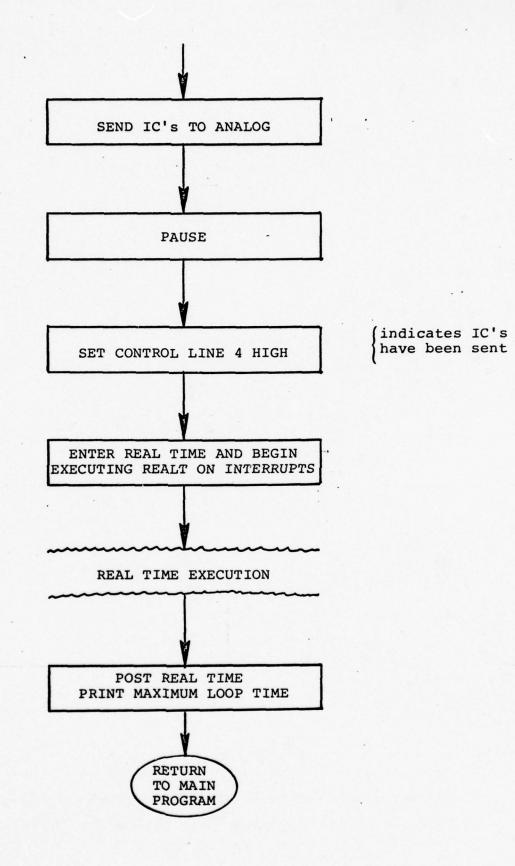
- Flow charts
- Equations
- Description of Symbols

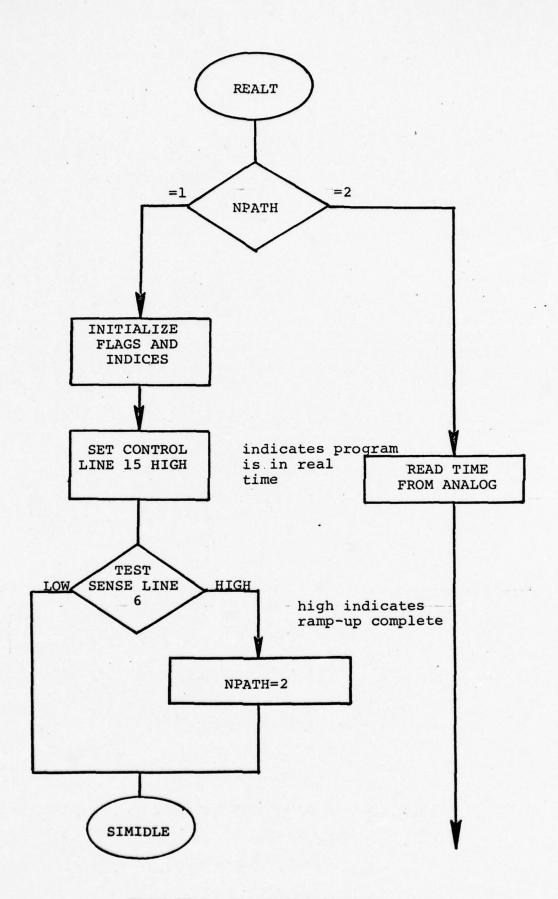
The flow chart given in Figure 4.1 only to the digital program. However, the equations and description of symbols are given for both analog and digital implementations.



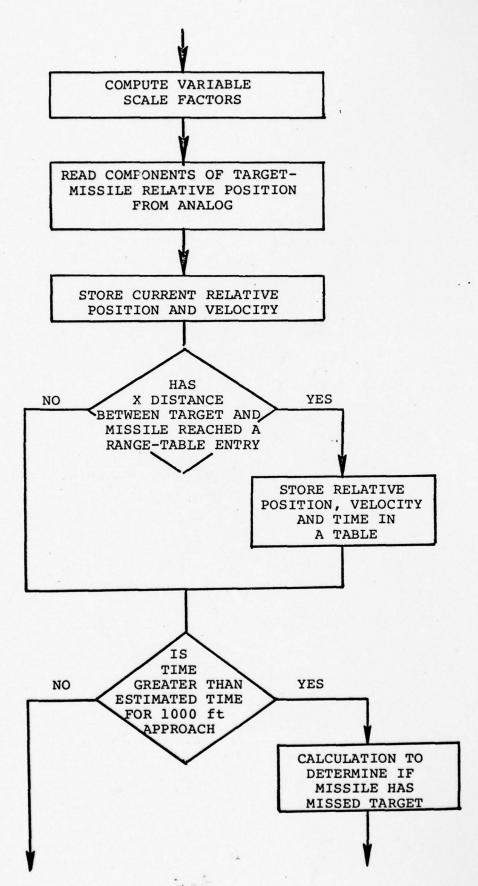
sense line 5 high indicates static test complete on analog

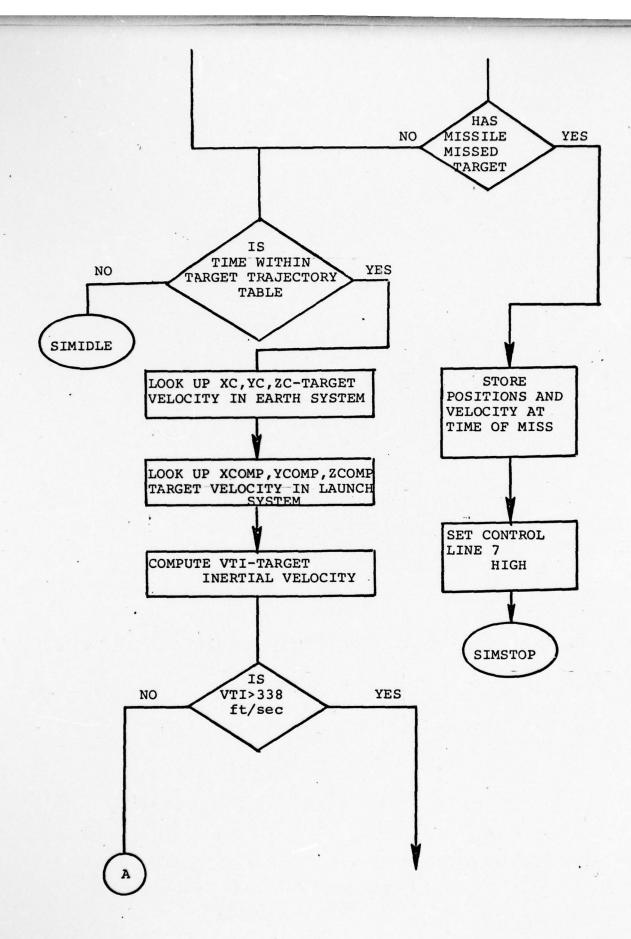
FLOW CHART FOR SUBROUTINE FLIGHT FIGURE 4.1

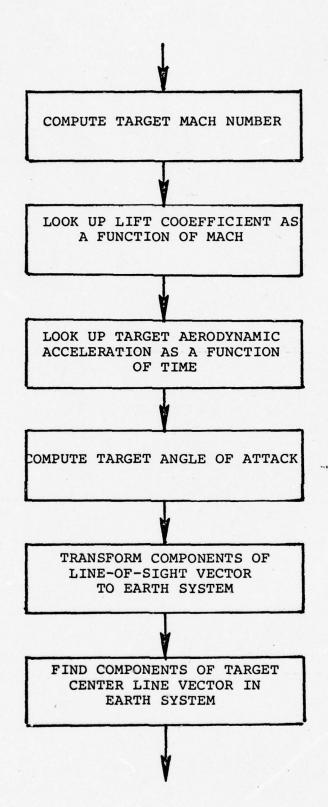


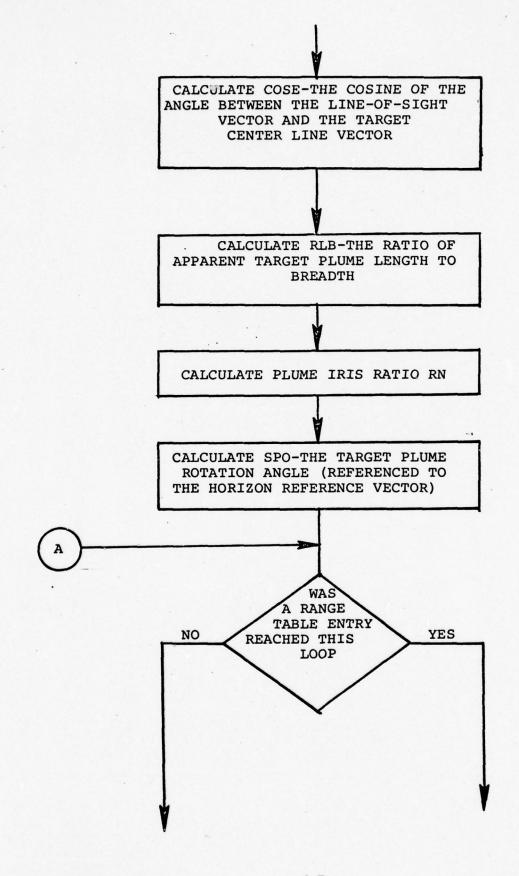


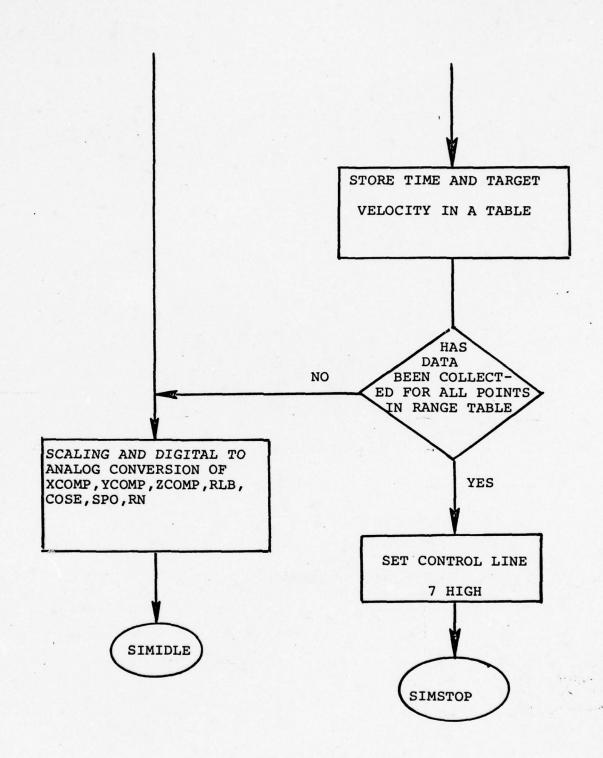
FLOW CHART FOR SUBROUTINE REALT FIGURE 4,2











PLUME SHAPE

$$|\overline{L}_{OS}| = \sqrt{(X_{ML} - X_{TL})^2 + (Y_{ML} - Y_{TL})^2 + (Z_{ML} - Z_{TL})^2}$$

$$P_1 = 2 \tan^{-1} \left(\frac{B/2}{\ell} \right)$$
 (DEG)

$$P_{2}INCH^{\dagger} = \frac{(f)(l)}{|\hat{L}_{os}|}$$
 (IN)

$$P_2 RAD + = tan^{-1} (\ell/|\tilde{L}_{os}|)$$
 (RAD)

$$P_2$$
RAD $= \ell/|\tilde{L}_{OS}|$ (RAD)

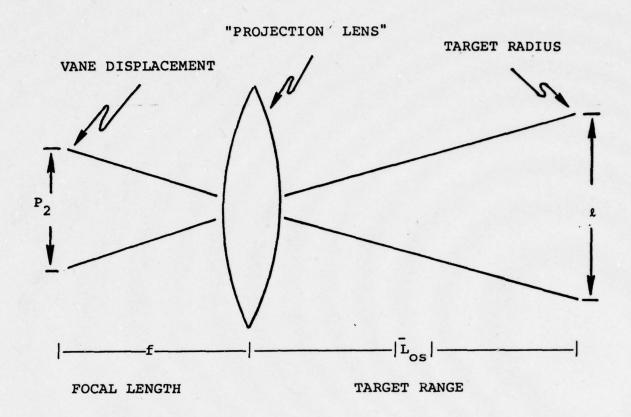


FIGURE 4.3
PLUME TRANSPARENCY

PLUME AZIMUTH AND ELEVATION

$$\psi_7 = \psi_4 - P_2 \cos (T_{RP}) \qquad (DEG)$$

$$\dot{\psi}_7 = \psi_4$$
 (DEG/SEC)

$$\theta_7 = \theta_4 - P_2 \sin (T_{RP})$$
 (DEG)

$$\dot{\theta}_7 = \dot{\theta}_4$$
 (DEG/SEC)

A. 1

PLUME LENGTH TO BREADTH RATIO AND ASPECT ANGLE

$$2 \approx L \sin (\epsilon)$$
 if B

$$\ell = L \sqrt{1-\cos^2(\epsilon)}$$

$$\ell/B = \frac{L}{B} \sqrt{1-\cos^2(\epsilon)}$$

$$\cos (\varepsilon) = \frac{\overline{L}_{os} \cdot \overline{C}_{L}}{|\overline{L}_{os}| |\overline{C}_{L}|}$$

0

2,3

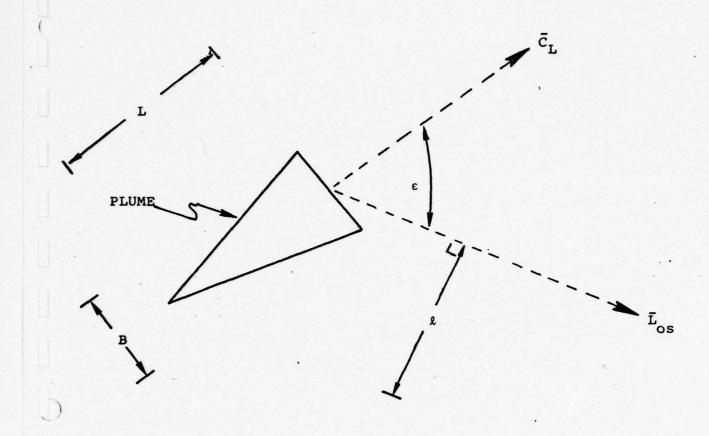


FIGURE 4.4 PLUME APPARENT LENGTH AND ASPECT ANGLE

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PLUME IRIS RATIO

$$H_{C7} = \left(\frac{R}{7000}\right)^{-2.341} (H|_{R=7000}) (w/cm^2)$$

$$A_{t7} = \frac{P_{2INCH SIN}^{2}(P_{1})}{2 \cos^{2}(P_{1}/2)}$$
 (IN²)

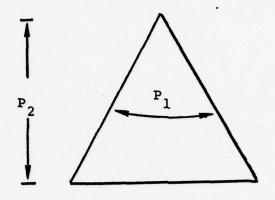
$$J_{tu7} = K_2 A_{t7}^{K_3}$$
, $K_2 = .1$, $K_3 = 1.003258$ (W/STER)

From IRSS Calibration curve fit

$$I_{r7} = \frac{\frac{H_{c7}f^2}{T_{f,plume}}}{J_{tu}}$$

$$i_7 = i_7 (I_{r7})$$

From IRSS Calibration limits



AREA =
$$P_2^2$$
 tan $(P_1/2)$

OR

AREA =
$$\frac{P_2^2 \sin P_1}{2 \cos^2 (P_1/2)}$$

FIGURE 4.5
AREA OF PLUME TRANSPARENCY

PLUME ROTATION ANGLE

$$\beta = \cos^{-1}\left(\frac{L_{x}}{\sqrt{L_{x}^{2} + L_{y}^{2}}}\right)$$

$$C_{x} = -\cos \beta$$

$$C_{y} = \begin{cases} +\sin \beta & \text{if } L_{x} > 0 \\ -\sin \beta & \text{if } L_{x} < 0 \end{cases}$$

$$D^{X} = T^{A}, C^{TZ} - T^{Z}, C^{TA}$$

$$D^{A} = \Gamma^{S}, C^{TA} - \Gamma^{X}, C^{TS}$$

$$D^{S} = T^{X} \cdot C^{TA} - T^{A} \cdot C^{TX}$$

$$\cos \theta = \frac{(\underline{L}_{os} \times \underline{C}_{L}) \cdot \underline{C}}{|\underline{L}_{os} \times \underline{C}_{L}| \cdot |\underline{C}|}, \text{ or } \theta = \cos^{-1}\left(\frac{(\underline{D}_{X} \cdot \underline{C}_{X} + \underline{D}_{Y}^{2} + \underline{D}_{Z}^{2}}{(\underline{D}_{X}^{2} + \underline{D}_{Y}^{2} + \underline{D}_{Z}^{2}}\right)$$

$$T_{RP} = \begin{cases} \pi/2 - \theta & \text{if } D_Z < 0 \\ \pi/2 + \theta & \text{if } D_Z > 0 \text{ and } \theta < \pi/2 \\ \theta - 3\pi/2 & \text{if } D_Z > 0 \text{ and } \theta > \pi/2 \end{cases}$$

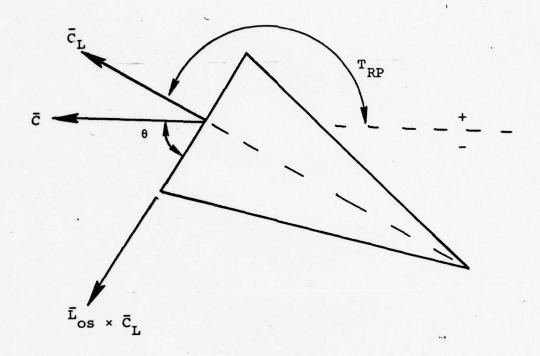


FIGURE 4.65

APPARENT TARGET PLUME AS SEEN FROM THE MISSILE SEEKER (THE PLANE OF THE PAPER IS PERPENDICULAR TO THE \overline{L} VECTOR) os

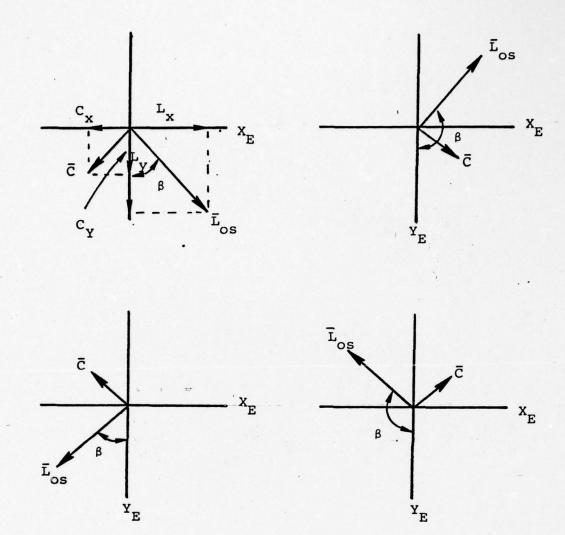


FIGURE 4.7 EXHAUSTION OF GENERAL CONFIGURATIONS FOR \overline{L}_{OS} AND \overline{C}

TARGET ANGLE OF ATTACK AND MACH NUMBER

$$\rho = .00237692 \text{ e}^{-.00003 \text{h}} \text{aSL}$$
 (SLUGS/FT³)

$$V_{T} = \sqrt{\dot{x}_{TE}^{2} + \dot{y}_{TE}^{2} + \dot{z}_{TE}^{2}}$$
 (FT/SEC)

$$C_{L_{\alpha_T}} = CLAA |_{Q_M}$$

$$a_s = 1116.89 - .003894 h_{aSL}$$
 (FT/SEC)

$$Q_{M} = V_{T}/a_{S}$$

$$h_{aSL} = \sqrt{\frac{X^2 + Z^2}{ML}} \sin \left[\frac{-Z_{ML}}{(\frac{X}{ML})} + \theta_L \right] + \Delta h^* \quad (FT)$$

 ΔL = Altitude of launch site above sea level (FT)

$$\alpha = \frac{2W_{T}}{\rho V_{T}^{2} C_{L_{\alpha}^{S_{T}g}}} \left(\sqrt{X_{TE}^{2} + Y_{TE}^{2} + Z_{TE}^{2}} \right)$$
(RAD)

^{*}THIS MODEL IS NOT CURRENTLY INCORPORATED IN THE MICOM REAL TIME SIMULATIONS.

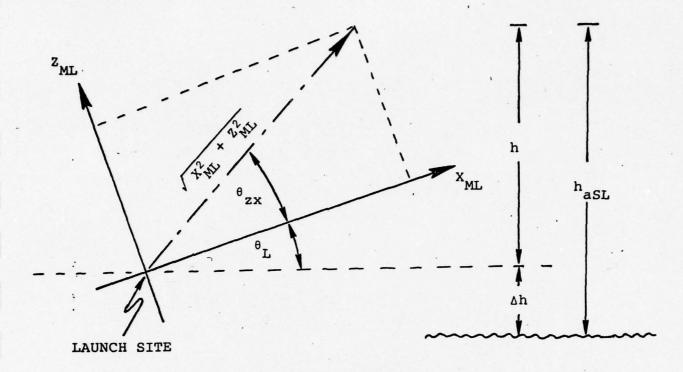


FIGURE 4.8 -- ALTITUDE OF TARGET ABOVE SEA LEVEL

FLARE TRANSPARENCY RADIUS AND IRIS RATIO

$$J_{tu2} = J_{tu2}(t_{FD})$$
 (W/STER), DFG

$$R_F = \sqrt{(X_{ML} - X_{2L})^2 + (Y_{ML} - Y_{2L})^2 + (Z_{ML} - Z_{2L})^2}$$

$$H_{c2} = J_{tu2} / R_F^2$$
 (W/CM²), DFG

$$t_2 = t_2' (H_{c2})$$
 (RAD), DFG

$$i_2 = i_2 (H_{c2})$$
 (RAD), DFG based on IRSS calibration limits.

FLARE AZIMUTH AND ELEVATION

$$\sigma_{Y2} = \frac{Y_{ML} - Y_{2L}}{X_{ML} - X_{2L}}$$
 (RAD)

$$\psi_{24\text{REL}} = \begin{cases} 57.3 & (\sigma_{Y4}^{-\sigma_{Y2}}), & t \ge t \\ 0, & t < t_{EJECT} \end{cases}$$
 (DEG.)

$$\dot{\psi}_{24\text{REL}} = 57.3 \left\{ \left[\frac{(\dot{Y}_{\text{ML}} - \dot{Y}_{4L}) - \sigma_{Y4} (\dot{X}_{\text{ML}} - \dot{X}_{4L})}{X_{\text{ML}} - X_{4L}} \right] - \Gamma(\dot{Y}_{\text{ML}} - \dot{Y}_{2L}) - \sigma_{Y2} (\dot{X}_{\text{ML}} - \dot{X}_{2L}) \right\}$$

$$-\left[\frac{(\dot{\mathbf{Y}}_{\mathrm{ML}} - \dot{\mathbf{Y}}_{\mathrm{2L}}) - \sigma_{\mathrm{Y2}}(\dot{\mathbf{X}}_{\mathrm{ML}} - \dot{\mathbf{X}}_{\mathrm{2L}})}{\mathbf{X}_{\mathrm{ML}} - \mathbf{X}_{\mathrm{2L}}}\right]\right\} \qquad (DEG/SEC)$$

$$\psi_2 = \psi_4 - \psi_{24\text{REL}} \quad \text{(DEG)}$$

$$\dot{\psi}_2 = \dot{\psi}_4 - \dot{\psi}_{24REL}$$
 (DEG/SEC)

$$\theta_{24\text{REL}} = \begin{cases} -57.3 (\sigma_{24}^{-\sigma_{22}}), & \text{t>t}_{EJECT} \\ 0, & \text{t (DEG)$$

$$\dot{\theta}_{24\text{REL}}^{=} -57.3 \left\{ \left[\frac{(\dot{z}_{\text{ML}} - \dot{z}_{4\text{L}}) - \sigma_{24} (\dot{x}_{\text{ML}} - \dot{x}_{4\text{L}})}{(x_{\text{ML}} - x_{4\text{L}})} \right] \right.$$

$$-\left[\frac{(\dot{z}_{ML}-\dot{z}_{2L})-\sigma_{22}(\dot{x}_{ML}-\dot{x}_{2L})}{(x_{ML}-x_{2L})}\right]\right\} \qquad (DEG/SEC)$$

FLARE DYNAMICS

$$X_{2L} = \frac{-\rho \ C_{D2} \ S_2 V_2 \ X_{2L}}{2M_2} - g \sin \theta_L , t>t_{EJECT}$$

$$Y_{2L} = \frac{-\rho \ C_{D2}S_2 \ V_2 \ X_{2L}}{2M_2}, t>t_{EJECT}$$

$$z_{2L} = \frac{-\rho \ C_{D2} S_2 \ V_2 \ Z_{2L}}{2M_2} + g \cos \theta_L$$
, t>t (FT/SEC²)

$$x_{2L} = x_{4L}$$

$$y_{2L} = y_{4L}$$

$$z_{2L} = z_{4L}$$

$$\dot{x}_{2L} = \dot{x}_{4L}$$

$$\dot{y}_{2L} = \dot{y}_{4L}$$

$$\dot{z}_{2L} = \dot{z}_{4L}$$

$$\dot{z}_{2L} = \dot{z}_{4L}$$

$$(FT)$$

TAILPIPE AZIMUTH AND ELEVATION

$$\sigma_{Y4} = \frac{Y_{ML} - Y_{4L}}{X_{ML} - X_{4L}}$$
 (RAD)

$$\psi_4 = 57.3 \, \sigma_{Y4}$$
 (DEG)

$$\dot{\psi}_{4} = 57.3 \left[\frac{(\dot{Y}_{ML} - \dot{Y}_{4L}) - \sigma_{Y4} (\dot{X}_{ML} - \dot{X}_{4L})}{(X_{ML} - X_{4L})} \right]$$
 (DEG/SEC)

$$\sigma_{Z4} = \frac{z_{ML} - z_{4L}}{x_{ML} - x_{4L}}$$
 (RAD)

$$\theta_4 = -57.3 \, \sigma_{Z4} \qquad (DEG)$$

$$\dot{\theta}_{4} = -57.3 \left[\frac{(\dot{z}_{ML} - \dot{z}_{4L}) - \sigma_{24} (\dot{x}_{ML} - \dot{x}_{4L})}{(x_{ML} - x_{4L})} \right]$$
 (DEG/SEC)

PITCH, YAW AND ROLL POSITIONS

$$P = 57.29 \int q'dt \qquad (DEG)$$

$$Y = 57.29 fr'dt (DEG)$$

$$R = R(p')$$
 (DEG)

TRANSFORMATION OF CL AND LOS FROM LAUNCH TO EARTH COORDINATES

$$\overline{C}_{L} = \overline{i}_{E} \left\{ \frac{X_{TE}}{V_{T}} \cos(\alpha) + \frac{X_{TE} Z_{TE} SIN(\alpha)}{V_{T} \sqrt{\dot{X}_{TE}^{2} + \dot{Y}_{TE}^{2}}} \right\}$$

$$+ \overline{j}_{E} \left\{ \overline{v}_{T}^{TE} \quad \cos (\alpha) + \underline{v}_{TE} \quad \underline{z}_{TE} \sin (\alpha) \\ v_{T}^{\sqrt{\hat{X}_{TE}^{2} + \hat{Y}_{TE}^{2}}} \right\}$$

$$+ \overline{K}_{E} \left\{ \frac{Z_{TE} \cos(\alpha)}{V_{T}} - \sqrt{\frac{X_{TE}^{2} + Y_{TE}^{2}}{V_{T}}} \sin(\alpha) \right\}$$

$$\overline{L}_{OS} = \overline{i}_{E} (X_{G} \cos \theta_{L} \cos \psi_{L} - Y_{G} \sin \psi_{L} + Z_{G} \sin \theta_{L} \cos \psi_{L})$$

$$+ \overline{j}_{E} (X_{G} \cos \theta_{L} \sin \psi_{L} + Y_{G} \cos \psi_{L} + Z_{G} \sin \theta_{L} \sin \psi_{L})$$

$$+ \overline{K}_{E} (-X_{G} \sin \theta_{L} + Z_{G} \cos \theta_{L})$$

$$X_G = X_{ML} - X_{TL}$$

$$Y_G = Y_{ML} - Y_{TL}$$

$$z_{G} = z_{ML} - z_{TL}$$

VARIABLE SCALE FACTOR

$$K = \begin{cases} 1 + \frac{\gamma t}{t'}, t < t' \\ 1 + \gamma, t > t' \end{cases}$$

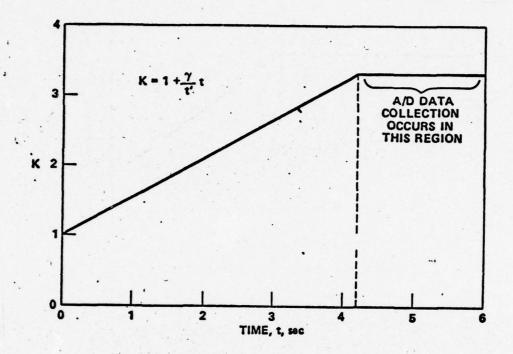


FIGURE 4.9
VARIABLE ANALOG SCALE FACTOR

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TABLE 4.1

DESCRIPTION OF PROGRAM SYMBOLS FOR SUBROUTINE FLIGHT AND REALT

VARIABLE	PROGRAM SYMBOL	DESCRIPTION
	SPO	Scaled plume rotation angle
T _{RP}	TRP	Plume rotation angle (RAD.)
θ _L	THETAL	Elevation angle of target (DEG.)
t	DT	Real time (SEC.)
g		Gravitational constant
× _E y _E z _E	XE YE ZE	Target aerodynamic accelera- tion table in earth fixed coordinates (Note ZE includes an added factor of 32.174 FT/SEC/SEC
α	Al	Target angle of attack (RAD.)
t'	G,GAM	Time at approximately 1000 feet to go
C _L	CLA	Aerodynamic lift coefficient of target due to angle of attack
v _{ti}	VTI	Target inertial velocity
Ł/B	RLB	Apparent plume length to breadth ratio
E	1	Subscript which denotes earth fixed coordinates
Ψ _L		Azimuth angle of target (DEG.)

VARIABLE	PROGRAM SYMBOL	DESCRIPTION
F		Subscript which denotes target fixed coordinates
L .		Subscript which denotes launch coordinates
R _i	RI	Initial range (FT.)
R _{FT}	RFEET	Range (FT)
	EDOT	Scaled y/t!
ρ	РНО	Air density (SLUGS/FT?)
Y _{min}	GGG	Minima of the overload function
t wares	Since Since	
к	SKK	Variable scale factor,
		$K = \begin{cases} 1 + \frac{\gamma t}{t'}, & t \leq t' \\ 1 + \gamma, & t > t' \end{cases}$
	xx	Range table for data collection
	xxs	Scaled range table (XX)

VARIABLE	PROGRAM SYMBOL	DESCRIPTION
. I _{r7}	RN	For MICOM Hybrid, a uniform random number, RN ε (-1,1) For IRSS, iris ratio number
Cos (ε)	COSE	Cosine of angle between LOS and center line of target
x _{ML} -x _{TL}	DX	Scaled XXX, YYY, ZZZ (NOTE: these
y _{ML} -y _{TL}	DY	variables may overload on the AD/4 until time = t')
z _{ML} -z _{TL}	DZ	
t	DT	Real time
x -x TL	xxx	x-Missile minus x-target position (FT.)
Y _{ML} -Y _{TL}	УУУ	y-Missile minus y-target position (FT.)
Z _{ML} -Z _{TL}	222	z-Missile minus z-target position (FT.)
× _{ML} -× _{TL}	XDOT	x-Missile minus x-target velocity (FT./SEC.)
y _{ML} -y _{TL}	YDOT	y-Missile minus y-target velocity (FT./SEC.)
ż _{ML} -ż _{TL}	ZDOT	z-Missile minus z-target velocity (FT./SEC.)

VARIABLE	PROGRAM SYMBOL	DESCRIPTION
* _{TL}	XDTGMS	Tables of target velocity components in launch system
y _{TL}	YDTGMS	System
ž _{TL}	ZDTGMS	
		e v
		to more than the second of the
В		$\cos^{-1} \left(\frac{L_y}{\sqrt{\frac{L_x^2 + L_y^2}{x^2}}} \right)$
h	ZALT	Altitude of missile above sea level (FT.)
	XCOMP	Interpolated value of XDTGMS
,	УСОМР	Interpolated value of YDTGMS
	ZCOMP	Interpolated value of ZDTGMS
* _{TE}	хс	Interpolated value of XDM
У́ _{ТЕ}	YC	Interpolated value of YDM
ż _{TE}	zc	Interpolated value of ZDM

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VARIABLE	PROGRAM SYMBOL	DESCRIPTION
	XDM	Tables of target velocity components in earth system
	YDM	
	ZDM	
	TIME	
· ·	PPX	
	PPY	Storage for missile position, velocity and
<u>-</u>	PPZ	time in the region of pre-specified range table entries
	VMX	~1
	VMY	
	VMZ	
	IPTS	Number of points in range table
	MISSED	An array of values representing miss conditions
	Tlll	Angle between (LOS×C _L) and horizon reference vector

VARIABLE	PROGRAM SYMBOL	DESCRIPTION
× _G		x-Missile minus x-target (in launch coordinates)
y_G		y-Missile minus y-target (in launch coordinates)
z _G	<u></u> .	z-Missile minus z-target (in launch coordinates)
VT	VTI	Target inertial velocity
	XTA	Interpolated target accelerations in earth
	YTA	fixed coordinate system
	ZTA	•
¯c _L		Longitudinal center line of target
C _{Lx}	G1	
c _{Ly}	G2	Components of \overline{C}_L in earth
C _{Lz}	G3	fixed coordinates
C _{Lz}		Line of sight vector

Section of the section

VARIABLE	PROGRAM SYMBOL	DESCRIPTION
L x	Fl	
L Y	F2	Components of \overline{L}_{OS} in
L z	F3	earth fixed coordinates
x ML		x-Missile position in launch coordinates
Y _{ML}		y-Missile position in launch coordinates
Z ML		z-Missile position in launch coordinates
x _{TL}		x-target position in launch coordinates
Y _{TL}		y-target position in launch coordinates
z _{TL}		z-target position in launch coordinates
x _{TE}		x-position of target in inertial coordinates
YTE		y-position of target in inertial coordinates
z TE		z-position of target in inertial coordinates

VARIABLE	PROGRAM SYMBOL	DESCRIPTION
	XDTGO	Initial values of XDTGMS, YDTGMS, ZDTGMS
	YDTGO	
	ZDTGO	
H _{c7}		Commanded irradiance for plume
f	19.5	Focal length of projection lens (CM)
H R=7000	HR7E	Irradiance at 7000 meters (W/CM ²)
P ₁	Plirss	Vertex angle of plume transparency (DEG)
P ₂	P2IRSS	Length of plume trans- parency (IN.)
A _{t7}	AT7	Area of plume trans- parency (IN?)
J _{tu} 7	PJTUl	Available radiant intensity of target as function of plume transparency area taken from calibration in IRSS (W/STER)
Tf,plume	0.3	Neutral density trans- mission factor for plume

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VARIABLE	PROGRAM SYMBOL	DESCRIPTION
w _T	WT	Weight of target
S _T	ST	Reference surface area of target
C		Horizon reference vector
Q _M	QM	Mach number of target
a s	AAA	Speed of sound
v ₂		Speed of flare
R F		Range to go between missile and flare
H _{i2} ,H _{c2}		Irradiance of flare W/CM ² (Note, letter c denotes calibration)
× FL	, ——— : i	Velocity of flare in launch coordinates (FT/SEC)
Ý _{FL}		
ż		
σ _{Y4}		Approximate ψ_4 (RAD)
σ _{Z4}		Approximate θ ₄ (RAD)
^σ Υ2	σΥΤ	Approximate ψ_2 (RAD)

VARIABLE	PROGRAM SYMBOL	DESCRIPTION
^σ 22	σ _{ZT}	Approximate 0 (RAD)
	J _{tu2}	Available radiant intensity of flare
 	T _{FD}	Time of flare drop (SEG)
L _{os}	R	Norm of line of sight (FT)
t _{FD}	t _{FD} ,t _{fd}	Time associated with flare drop
8		Missile wing deflection
^ψ 2	ψ _{F2}	Flare azimuth (DEG)
Ψ4	Ψ _{T4}	Tail pipe azimuth (DEG)
Ψ7	Ψ _{T7}	Plume azimuth (DEG)
Ψ 24	ΨT2REL	
θ ₂	θ _{T2}	Flare elevation (DEG)
θ4		Tail pipe elevation (DEG)
θ ₇	θ _{T7}	Plume elevation (DEG)
⁰ 24		
ψ ₂	ψ̂ _{F2}	Flare azimuth rate (DEG/SEC)
Ψ ₄	Ψ _{T4}	Tail pipe azimuth rate (DEG/ SEC)

VARIABLE	PROGRAM SYMBOL	DESCRIPTION		
¥7	[†] T7	Plume azimuth rate (DEG/SEC)		
Ψ24	ΨT2REL			
ė ₂	θ _{T2}	Flare elevation rate (DEG/SEC)		
ė ₄	ė _{T4}	Tail pipe elevation rate (DEG/SEC)		
ė ₇	θ _{T7}	Plume elevation rate (DEG/SEC)		
⁰ 24	⁰ T2REL			
t ₂		Transparency radius for flare used to command		
t ₄ .		Transparency radius true for tailpipe size		
P	θ	GUM pitch angle (DEG)		
Y	ψ	GUM yaw angle (DEG)		
R	ф	GUM roll angle (DEG)		
	N - X			
r'		GUM Yaw rate (DEG/SEC)		
q'		GUM pitch rate (DEG/SEC)		
p'		GUM roll rate (DEG/SEC)		

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VARIABLE	PROGRAM SYMBOL	DESCRIPTION
	NPATH	Flag to control entrance into computation loop of real-time code.
	LOOP1	Loop counter for real-time interrupts prior to sense line 6 coming high
	LOOP2	Loop counter for real-time interrupts after sense line 6 comes high
	INFLRT	Flag to signal entrance into real time, INFLRT = -1 indicates batch and INFLRT = +1 indicates entrance into real-time
	LTF	Clock time at beginning of real- time loop. This value is used later to compute specific loop time for each loop
	NSEG	Segment number of real-time code which is to be entered.
	IT1	
	INDEX	Index for storing real-time data for post real-time analysis
	LEVEL	Status of maneuver -7 → not in real-time 0 → in real-time +7 → target trajectory table exceeded
	IT1, IT2	Index used in interpolation of target trajectory time
	NT	Length for target trajectory tables

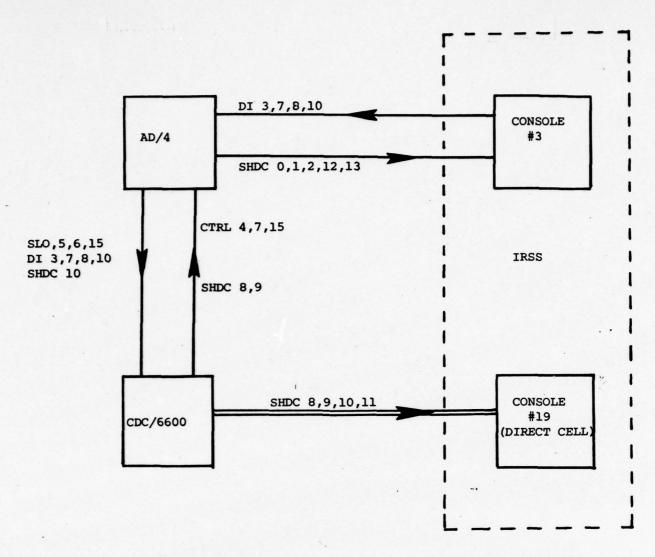
VARIABLE	PROGRAM SYMBOL	DESCRIPTION
	DXG	
	DYG	
	DZG	Dummy storage location for current
	XDO	value of DX, DY, DZ, XDOT, YDOT and ZDOT respectively. These
	YDO	variables are returned to the main program for diagnostic purposes
	ZDO	
L	PL .	Actual plume length (FT)
В	PB	Actual plume breadth at base (FT)
e.	PLA	Apparent plume length
	t	MAN(1,I)
	$\dot{\mathtt{x}}_{\mathtt{TL}}$	MAN(2,I)
	$\dot{\mathtt{Y}}_{\mathtt{TL}}$	Target time and velocity at each
	ż _{TL}	range table data MAN(4,I) collection point

V. REAL-TIME I/O



V. REAL-TIME I/O

This Section contains a description of real-time input output requirements of the MICOM Hybrid STINGER Simulation. The tables and figures included in this section describe the flow of analog and discrete information between an AD/4 analog computer, a CDC/6600 digital computer and the IRSS.



NOTE: The CTRL and SL word are also used to transmit SHDCS and DIs, the specific usage is:

o SHDC 8 = CTRL 8 o DI 3 = SL 3 o SHDC 9 = CTRL 9 o DI 7 = SL 7 o DI 8 = SL 8 o SHDC 11 = CTRL 11 o DI 10 = SL 10

FIGURE 5.1
DISCRETE CIRCULATION

V60	V61	V60	V61	V62	. V63	V62	V63
00	10	20	30	40	50	60	70
01	11	21	31	41	51	61'	71
02	12	22	32	42	52	62	72
03	13	23	33	43	53	63	73
04	14	24	34	44	54	64	- 74
05	15	25	35	45	55	.65	75
06	16	26	36	46	56	66	76
07	17	27	37	47	57	67	77

0

I

0

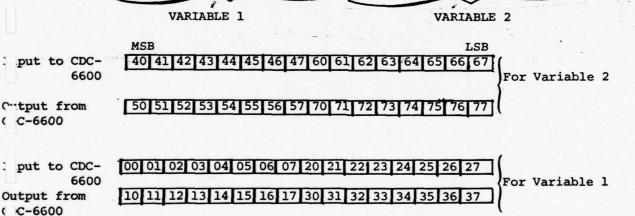


FIGURE 5.2

AD/4 DISCRETE TRUNK LINE CONNECTIONS

TABLE 5.1
DISCRETE SIGNALS FROM AD/4 TO CDC/6600

AD/4 PATCH	CDC/6600 BIT	DESCRIPTION	ORIGIN	ULTIMATE DESTINA- TION
TR4	SL11	NORMAL TERMINATION (SHDC10), SIGNALS RAMP DOWN COMPLETE	AD/4	IRSS/19
TR27	SLO	LOOP TO BATCH, RETRANSMITTS ICS WHEN SET LOW	AD/4	6600
TR22	SL5	STATIC TEST OK, SIGNALS AD/4 READY TO RECEIVE IC	AD/4	6600
TR21	SL6	RAMP UP READY, SET HIGH BY OPERATE SWITCH IN MICOM HYBRID, THIS STARTS REAL TIME LOOPING	AD/4	6600
TROO	SL15	6600 ABNORMAL ABORT, USED TO EXIT REAL TIME LOOPING	AD/4	6600
TR24	SL3	IRSS READY (DI3)	IRSS	6600
TR20	SL7	END OF PROBLEM (DI7)	IRSS	AD/4 6600
TR7	SL8	EMERGENCY SHUTDOWN (DI8)	IRSS	AD/4 6600
TR5	SL10	INITIAL FIELD REQUEST (DI10)	IRSS	6600

TABLE 5.2 DISCRETE SIGNALS FROM AD/4 TO IRSS

AD/4 PATCH	IRSS BIT	DESCRIPTION	ORIGIN	ULTIMATE DESTINA- TION
T46	SHDC0	SHUTTER #2 COMMAND	AD/4	IRSS/3
T61	SHDCl	SHUTTER #4 COMMAND	AD/4	IRSS/3
T63	SHDC2	SHUTTER #7 COMMAND	AD/4	IRS5/3
	SHDC8	SIMULATION RUNNING, (THIS PATH NOT USED SEE CTRL8)		
	SHDC9	FIELD TRANSMITTED, (THIS PATH NOT USED SEE CTRL9)		
	SHDC10	NORMAL TERMINATION, (THIS PATH NOT USED SEE SL11)		
T43	SHDC12	TARGET AQUIRED	AD/4	IRSS/3
T4 0	SHDC13	DISCRETE #5, SWITCH SEEKER FROM EXTERNAL TO INTERNAL POWER	AD/4	IRSS/3

NOTE: IRSS/3 IS IRSS CONSOLE 3 AND IRSS/19 IS IRSS CONSOLE 19, THE DIRECT CELL DATA LINK

TABLE 5.3 DISCRETE SIGNALS FROM IRSS TO AD/4

AD/4 PATCH	IRSS	BIT	DESCRIPTION	ORIGIN	ULTIMATE DESTINA- TION
т72	DI3		IRSS READY, NOT SENT UNTIL TARGET ACQUIRED SIGNAL IS RECEIVED	IRSS	6600
т 56	D17		END OF PROBLEM, SIGNALS EQUIPMENT SHUT DOWN IN IRSS	IRSS	AD/4 6600
T55	D18	X 5 1	EMERGENCY SHUT DOWN, SIGNALS EXCESSIVE ACCELERATION IN GUM	IRSS	AD/4 6600
т53	DI10	•	INITIAL FIELD REQUEST	IRSS	6600

TABLE 5.4 DISCRETE SIGNALS FROM CDC/6600 TO AD/4 OR IRSS

AD/4 PATCH	CDC/6600 BIT	DESCRIPTION	ORIGIN	ULTIMATE DESTINA- TION
TR33	CTRL4	ICs SENT,	6600	AD/4
TR30	CTRL7	INTECEPT DETECTED, SET HIGH BY INTERCEPT OR MISS CONDITION	6600	AD/4
TR10	CTRL15	REAL TIME LOOPING, SIGNALS CDC/6600 WAIT- ING FOR SL6 HIGH	6600	AD/4
TR16	CTRL9	FIELD TRANSMITTED (SHDC9) SIGNAL TO GEPAC THAT FIRST FRAME OF DATA IS AVAILABLE. THIS OCCURS AFTER THE 6600 HAS RECEIVED INITIAL FIELD REQUEST, DI10	6600	IRSS/19 AD/4
TR17	CTRL8	SIMULATION RUNNING (SHDC8) TURNS ON INDI- CATOR LIGHTS ONLY. SENT WITH SHDC11	6600	IRSS/19 AD/4
	CTRL11	START SIMULATION (SHDCll) IN CLOSED-LOOP GEPAC RESPONDS BY SENDING FIRST CLOCK PULSE. SENT WITH SHDC8	6600	IRSS/19

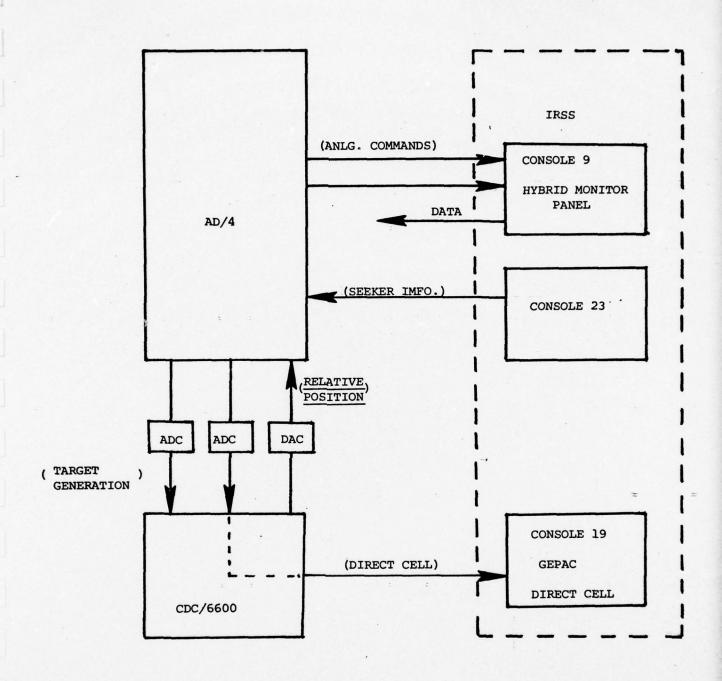


FIGURE 5.3 ANALOG SIGNAL CIRCULATION

10 11 11 11 11 11 11 11 11 11 11 11	SEPAKE 10 11 10 15 16 16 17
AD/4 COMMANDS TO IRSS/9 10 30 θ_2 11 ψ_2 31 12 32 θ_4 13 ψ_4 33 14 34 θ_7 15 ψ_7 36 16 ψ_7 36 17 37	SEFKER DATA 10 11 11 12 13 14 15 6wi 16 COMD 17 TAG
30 31 31 33 33 36	37 36 34 33 31 30 37 37 36 36 37 37 36 36 37 37 37 37 37 37 37 37 37 37 37 37 37
1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	ACQ.
50 50 50 50 50 50 50 50 50 50 50 50 50 5	55 54 50 57
XMI-XIII TO 6600 TO 7 TIL TO 6600	31 B
70 70 71 71 72 73 76	70 71 72 73 76
TO 23 10 11 11 13 16	10 10 11 11 12 12 15 16 16 16 17
	ADC'S to GEPAC 10 t2 11 t4 12 P2 13 R 14 P1 16 \$\frac{1}{1}7\$ 17 \$\frac{1}{1}7\$
30 31 31 33 34 37	31 31 31 31 37 38 38 38
50 51 52 53 54 56	50 50 50 50 50 50 50 50 50 50 50 50 50 5
	TRP RITE
70 725S 71 71 72 73 75 76 776	70 71 71 72 73 76
6/83	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1

TABLE 5.5 AD/4 - CDC/6600 ADC ASSIGNMENT (V13 →

AD/4 TRUNK LINE ASSIGNMENT	151	152	153	154	155	156	157
RELATIVE . ADC ASSIGN.	8	ю	4	S	9	7	ω
DIGITAL FRACTION -1 <n<+1< td=""><td>$K(X_{ML}^{-1}-X_{TL}^{-1})$ (20) (100)</td><td>$K(Y_{ML}-Y_{TL})$ (20) (100)</td><td>$K(Z_{ML}^{-Z_{TL}})$ $(20)(100)$</td><td>10t (100)</td><td>x -x TL (200) (100)</td><td>ML - IL+ (200) (100)</td><td>$\dot{\hat{\mathbf{z}}}_{\mathrm{ML}} - \dot{\hat{\mathbf{z}}}_{\mathrm{TL}}$ (200) (100)</td></n<+1<>	$K(X_{ML}^{-1}-X_{TL}^{-1})$ (20) (100)	$K(Y_{ML}-Y_{TL})$ (20) (100)	$K(Z_{ML}^{-Z_{TL}})$ $(20)(100)$	10t (100)	x -x TL (200) (100)	ML - IL+ (200) (100)	$\dot{\hat{\mathbf{z}}}_{\mathrm{ML}} - \dot{\hat{\mathbf{z}}}_{\mathrm{TL}}$ (200) (100)
AD/4 ANLG. VOLTAGE -100 <v<+100< td=""><td>$\frac{K(X_{ML}-X_{TL})}{20}$</td><td>K(Y_{ML}-Y_{TL}) 20</td><td>$\frac{K(Z_{ML}^{-Z})}{20}$</td><td>10t</td><td>X -X TL Z00</td><td>$\hat{\mathbf{r}}_{\mathbf{ML}} - \hat{\mathbf{r}}_{\mathbf{TL}}$</td><td>$\frac{\dot{z}_{\rm ML} - \dot{z}_{\rm TL}}{200}$</td></v<+100<>	$\frac{K(X_{ML}-X_{TL})}{20}$	K(Y _{ML} -Y _{TL}) 20	$\frac{K(Z_{ML}^{-Z})}{20}$	10t	X -X TL Z00	$\hat{\mathbf{r}}_{\mathbf{ML}} - \hat{\mathbf{r}}_{\mathbf{TL}}$	$\frac{\dot{z}_{\rm ML} - \dot{z}_{\rm TL}}{200}$
ANALOG VARIABLE NAME	χα	DX	ZG	DT	XDOT	YDOT	ZDOT

(ADC ASSIGNMENT CONTINUED)

AD/4 TRUNK LINE ASSIGNMENT	170	171	173
RELATIVE ADS ASSIGNMENT	Ō	10	12
DIGITAL FRACTION -1 <n<+1< th=""><td>K(X_{ML}-X_{TL}) (200) (100)</td><td>$K(x_{ML}^{-1}x_{TL}^{-1})$ (200) (100)</td><td>$K(Z_{ML}^{-Z_{TL}})$ (200) (100)</td></n<+1<>	K(X _{ML} -X _{TL}) (200) (100)	$K(x_{ML}^{-1}x_{TL}^{-1})$ (200) (100)	$K(Z_{ML}^{-Z_{TL}})$ (200) (100)
AD/4 ANLG. VOLTAGE -100 <v<+100< th=""><td>$\frac{\mathrm{K}(\mathrm{X}_{\mathrm{ML}}-\mathrm{X}_{\mathrm{TL}})}{200}$</td><td>$\frac{\mathrm{K}(\mathrm{X}_{\mathrm{ML}}-\mathrm{Y}_{\mathrm{TL}})}{200}$</td><td>K(Z_{ML}-Z_{TL}) 200</td></v<+100<>	$\frac{\mathrm{K}(\mathrm{X}_{\mathrm{ML}}-\mathrm{X}_{\mathrm{TL}})}{200}$	$\frac{\mathrm{K}(\mathrm{X}_{\mathrm{ML}}-\mathrm{Y}_{\mathrm{TL}})}{200}$	K(Z _{ML} -Z _{TL}) 200
ANALOG VARIABLE NAME	xxx	XXX	222

TABLE 5.6 AD/4 - CDC/6600 DAC ASSIGNMENT (V15 +

AD/4 TRUNK LINE ASSIGNMENT	250	251	252	253	254	255	256
RELATIVE DAC DAC ASSIGNMENT	1	7	ĸ	4	'n	•	7
AD/4 ANLG. VOLTAGE -10 <v<+10< td=""><td>$\frac{x_{TL}}{200}$</td><td>$\frac{\hat{r}_{TL}}{200}$</td><td>$\frac{2}{200}$</td><td>æ/B</td><td>10 cos (ε)</td><td>T_{RP}</td><td>R_i 2000</td></v<+10<>	$\frac{x_{TL}}{200}$	$\frac{\hat{r}_{TL}}{200}$	$\frac{2}{200}$	æ/B	10 cos (ε)	T _{RP}	R _i 2000
DIGITAL FRACTION -1 <n<+1< td=""><td>$\hat{\mathbf{x}}_{ ext{TL}}$</td><td>${ m \dot{r}_{TL}}_{(200)~(10)}$</td><td>${ m ^{2}_{TL}}_{(200) (10)}$</td><td>(4/B) (10)</td><td>10cos(ε) 10</td><td>$\frac{T_{RP}}{10}$</td><td>R₁ (2000) (10)</td></n<+1<>	$\hat{\mathbf{x}}_{ ext{TL}}$	${ m \dot{r}_{TL}}_{(200)~(10)}$	${ m ^{2}_{TL}}_{(200) (10)}$	(4/B) (10)	10cos(ε) 10	$\frac{T_{RP}}{10}$	R ₁ (2000) (10)
DIGITAL VARIABLE NAME	XDTGO, XCOMP	YDTGO, YCOMP	ZDTGO, ZCOMP	RLB	COSE	SPO	RI

(DAC ASSIGNMENT CONTINUED)

M F					
AD/4 TRUNK LINE ASSIGNMENT	257	270	271	273	273
DAC ASSIGNMENT	œ	O	10	12	12
AD/4 ANLG. VOLTAGE -10 V +10	t •	5(1/t')	1 <mark>0</mark> 1	10.741 i ₇	ж ^и
DIGITAL FRACTION -1 N +1	10	(y/t') (.6)(10)	$^{9}_{L}$ (10)	10.741 i ₇	в 10
DIGITAL VARIABLE NAME	САМ	EDOT	THETAL	RN	RN*

* FOR MICOM HYBRID APPLICATIONS

TABLE 5.7 COMMANDS TO IRSS/9

	001~W9X28A					
ANALOG VARIABLE NAME	AD/4 ANALOG VOLTAGE	RELATIVE TRUNK ASSIGNMENTS	AD/4 TRUNK LINE ASSIGNMENTS			
θ 7 ψ 7 θ 2 ψ 4 θ 4	$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	14 7 9 4 11 2	235 216 230 213 232 211			

TABLE 5.8 COMMANDS TO IRSS/9

V17 - U02+W9X28A

ANALOG VARIABLE NAME	AD/4 ANALOG VOLTAGE	RELATIVE TRUNK ASSIGNMENTS	AD/4 TRUNK LINE ASSIGNMENTS
r'(YAW RATE)	1.0 r'	5	354
q'(PITCH RATE)	1.0 q'	6	355
p'(ROLL RATE)	13.8x10 ⁻³ p'	7	356
T _{RP}	.5555 T _{RP}	2	351

TABLE 5.9 IRSS/23 TO AD/4 (seeker outputs) V14-400-W23X28C

ANALOG VARIABLE NAME	AD/4 ANALOG VOLTAGE	RELATIVE TRUNK ASSIGNMENT	AD/4 TRUNK LINE ASSIGNMENT
δ _{ωi}	.5435 δ _{ωi}	. 6	015
Guid. Comd.		7	016
TAG		8	017
TAB			030
Sync Filt		10	031
Acquisition		. 11	032

TABLE 5.10 AD/4 TO CDC/6600 (sent to IRSS via direct cell)

V12+

ANALOG VARIABLE AD/4 ANALOG VOLTAGE		RELATIVE ADC ASSIGNMENT	AD/4 TRUNK LINE ASSIGNMENT
t ₂	9.53x10 ³ t ²	. 1	110
t ₄	9.534X10 ³ t ₄	2	111
P ₂	9.896X10 ² P ₂	3	112
R	.5555 R	4.	113
P ₁	1.7255 P ₁	5	114
i ₂	10.742 i ₂	6	115
i ₄	10.742 i ₄	7	116
i ₇ .	10.741 i ₇	8	117
Ψ2	1.1111 ψ ₂	9	130
θ2	3.333 ₉	10	131
Ψ4	1.111 ψ ₄	11	132
θ ₄	3.333 0 ₄	12	133
Ψ ₇	1.111 ψ ₇	13	134
θ ₇	3.333 ⁰ 7	14	135
P	1.25 P	15	136
Y	1.111 Y	16	137

VI. SUBROUTINE KSCALE



VI. SUBROUTINE KSCALE

This subroutine estimates t', the time at 1000 feet-to-go for target missile intercept and computes the overload function for real-time variable scale factors. The estimates are based on a simplified model involving a constant bearing course and a nomial missile/target trajectory.

In addition, the program computes γ min - the minimal of the overload function, t γ min - the time at which γ min occurs and the smallest bit ADC resolution for relative missile positions.

EQUATIONS:

$$\bullet \quad \theta_2 = \tan^{-1} \left(\frac{t' \quad y_{TL}(0)^2 + Z_{TL}^2(0)}{R_i - 1000 + t' x_{TL}(0)} \right)$$

•
$$R_i^{-\Delta} R \cos (\theta_2) - 1000 + t' x_{TL}(0) = 0$$

(Note, the interative solution of this equation yields t')

•
$$K_p = -x_{L1m}/R_i = +20,000/R_i \rightarrow K_pR_i = 20,000$$

•
$$K_p R_i = \left(1 + \frac{\gamma \min t \gamma \min}{t'}\right) \left(R_i + x_{TL}(0) t_{\gamma \min} - \Delta R_{\min} \cos \theta_2\right)$$

or

$$\gamma_{\min} = \frac{1}{t \gamma_{\min}} \left(\frac{20,000 t'}{(R_i + x_{TL}(0) t_{\gamma_{\min}} - \Delta R_{\min} \cos \theta_2)} - t' \right)$$

$$\frac{d\gamma}{t} = At^{2}_{\gamma \min} + Bt_{\gamma \min} + C = 0$$

(Note, the interative solution of this equation yields $t_{\gamma \min}$)

$$\bullet \quad A = x_{TL}^2(0)$$

• B = 2
$$\dot{x}_{TL}(0)$$
 (20,000 - R + $\Delta R_{min} \cos \theta_2$) - 20,000 $V_m \cos (\theta_2)$

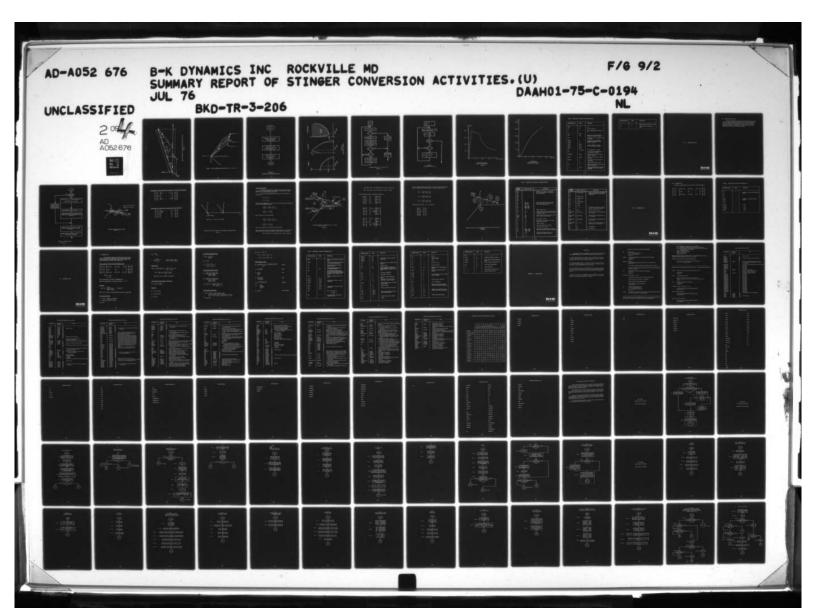
•
$$C = (R - \Delta R_{min} \cos \theta_2) (20,000 - R + \Delta R_{min} \cos \theta_2)$$

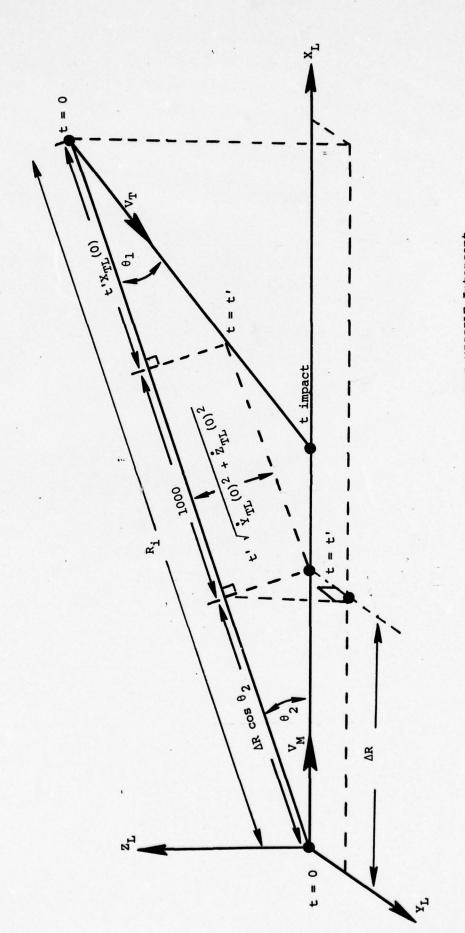
$$\bullet \quad \gamma_{\min} = -\left(\frac{20,000}{R_i + \dot{X}_{TL}(0) t \gamma_{\min} - \Delta R \cos \frac{\theta}{2}} + 1\right) \left(\frac{t'}{t \gamma_{\min}}\right)$$

• A2 =
$$\frac{(\Delta \text{Voltage}) \text{ (Analog Scale Factor for DX)}}{1 + \gamma_{\min}}$$

Here Δ Voltage is the analog voltage change resulting from a smallest bit change in the associated DAC.

$$\Delta V = .024$$
Analog Scale Factor = 20
$$\begin{cases} Typical \\ Values \end{cases}$$





SIMPLIFIED GEOMETRY FOR ESTIMATING TARGET-MISSILE Intercept

FIGURE 6.1

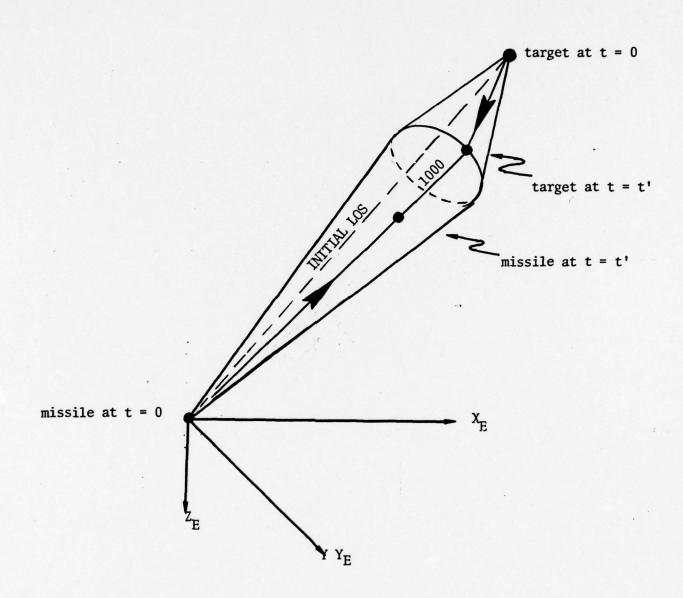


FIGURE 6.2 TYPICAL TARGET/MISSILE POSITION AT TIME $t = t_0$ and t = t'

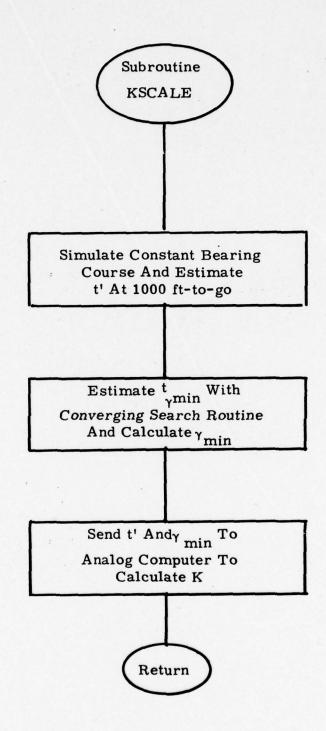


FIGURE 6.3
OVERVIEW OF SUBROUTINE KSCALE

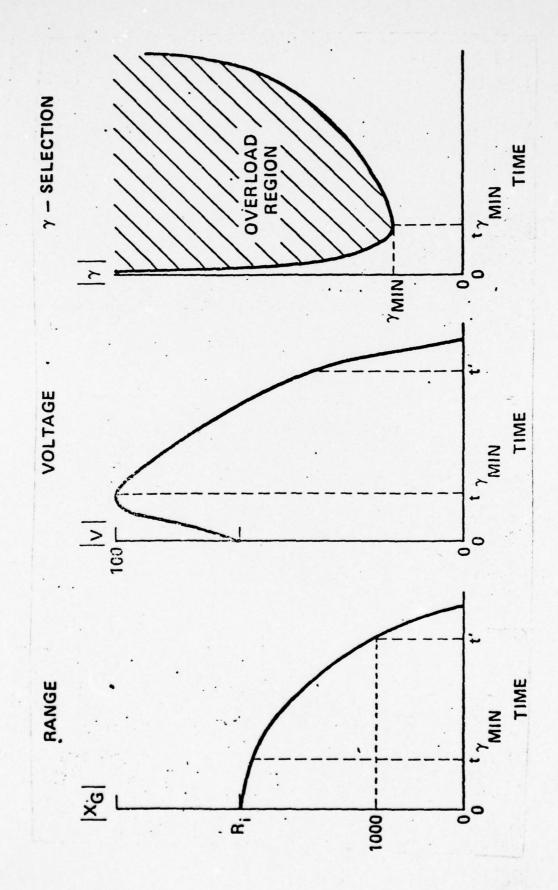
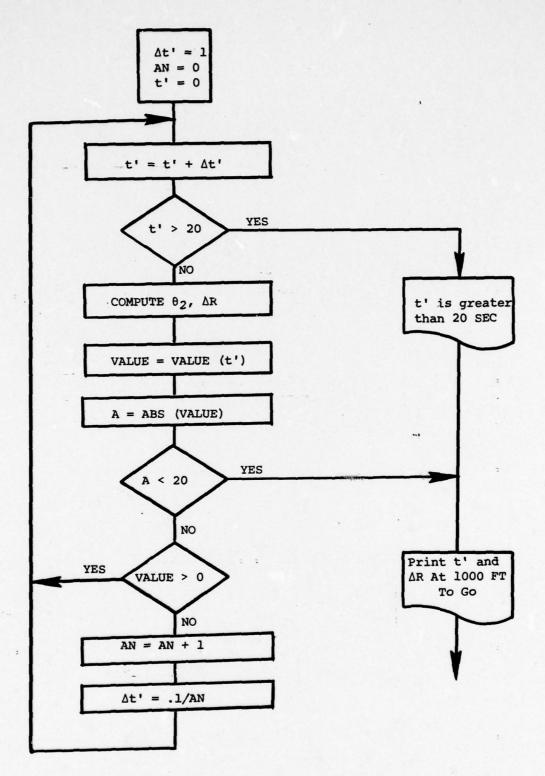


FIGURE 6.4 SELECTION CRITERIA



CONVERGING SEARCH FOR t' AT 1000 FT TO GO FIGURE 6.5

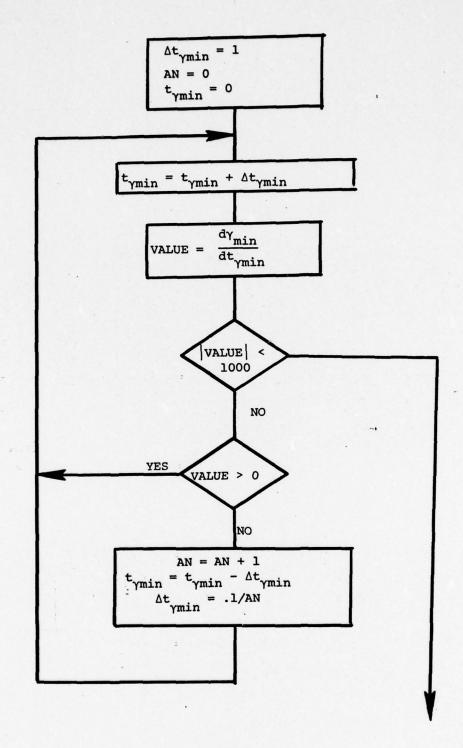
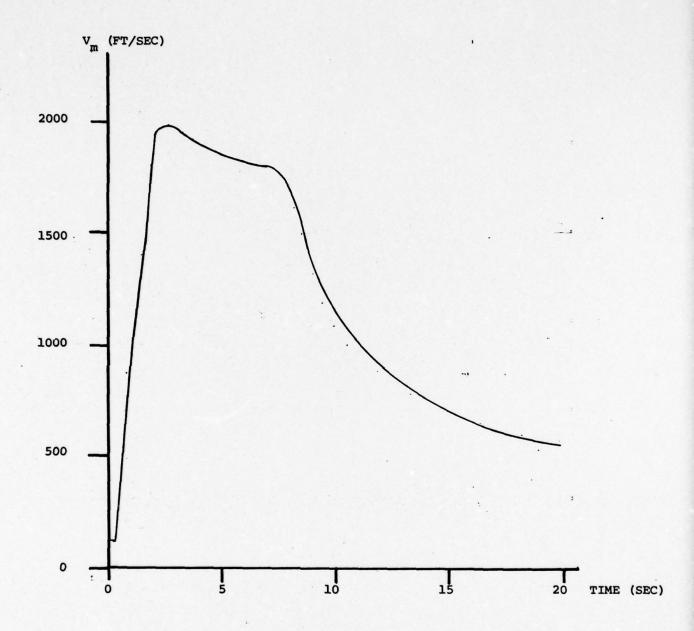


FIGURE 6.6 CONVERGING SEARCH FOR γ_{min}



VELOCITY VS TIME FOR NOMINAL STINGER TRAJECTORY FIGURE 6.7

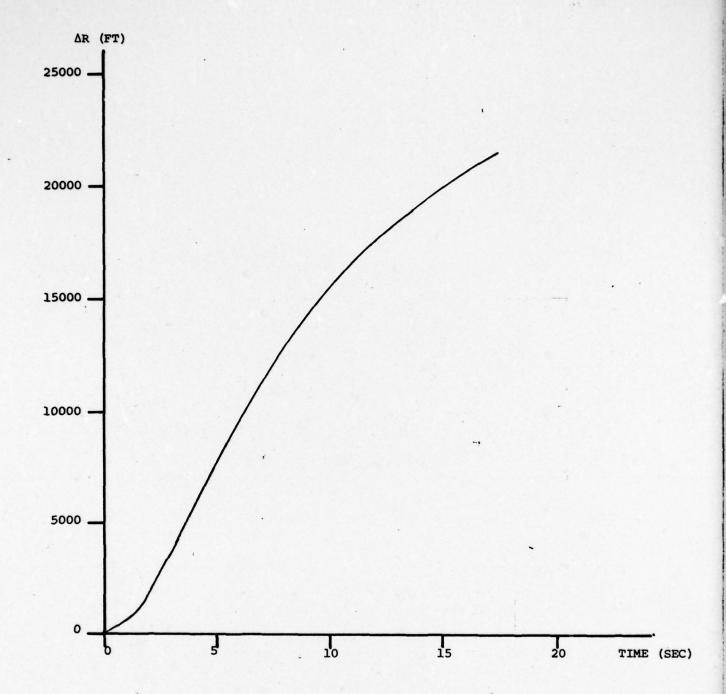


FIGURE 6.8
DISTANCE VS TIME FOR
NOMINAL STINGER TRAJECTORY

TABLE 6.1 DESCRIPTION OF SYMBOLS FOR SUBROUTINE KSCALE

PROGRAM VARIABLE	SYMBOL	DESCRIPTION
EDOT	γ/t'	γ/t'
RI	$\mathtt{R_{i}}$	Initial range (FT)
G	t'	Time at approximately 1000 feet to go
GG	t _{ymin}	
GGG	Y _{min}	Minima of the overload function, obtained by iterative solution
IS1		Print flag, IS1 # 1 indicates print is desired
THETAL	θ ₁	See Figure titled Simplified
THETA2	θ2	Geometry for Estimating Target- Missile intercept.
XDTGO	χ _{TL} (0)	Initial components of target
YDTGO	Ý _{TL} (0)	Initial components of target velocity in launch coordinates
ZDTGO	ż _{TL} (0)	
DG	Δt',Δt _{γmin}	Time increment in t' search
AN	e 	Scale factor for decrementing Δt as the search is refined
DELTAR(I)	ΔR(t _m)	Distance missile has flown along nominal trajectory
VM(I)	V _m (t _m)	Velocity of missile for a nominal trajectory
TAMA(I)	t _m	Time table for the above nominal trajectories
¥	k _p	Maximum analog voltage = 100v
NB		Length of nominal trajectory tables TAMA, VM and DELTAR
	X _{Llm}	Maximum value expected for X_{ML} (used to estimate scale factors, X_{L1M} = 20,000 FT)

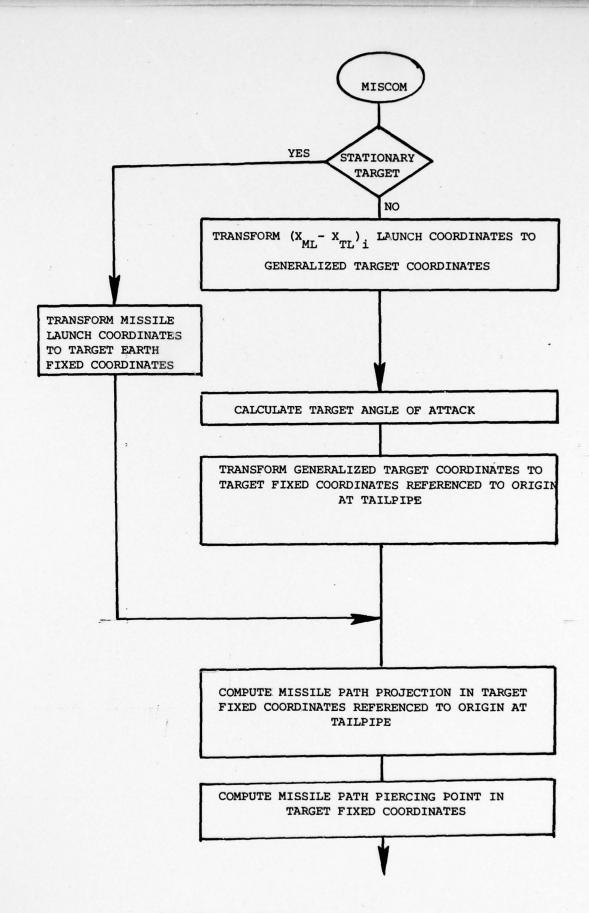
PROGRAM VARIABLE	SYMBOL	DESCRIPTION
	k _p	Maximum analog voltage (k _p = 100v)
A2		Smallest bit ADC resolution in feet

VII. SUBROUTINE MISCOM



VII. SUBROUTINE MISCOM

Subroutine MISCOM transforms the relative missile minus target location in launch coordinates to target fixed coordinates referenced to the target tailpipe. The missile path projection is then computed by a least square straight line approximation of real time data. Nearest approach miss distance is computed in each plane of the target fixed coordinate system (referenced to tailpipe origin).



OVERVIEW OF SUBROUTINE MISCOM

FIGURE 7.1

 $x_{\rm GN}, y_{\rm GN}$ axes, t, $\overline{v}_{\rm T}$ and $\overline{a}_{\rm AERO}$ are in same plane. $\overline{v}_{\rm T}$ $\overline{z}_{\rm GN}$

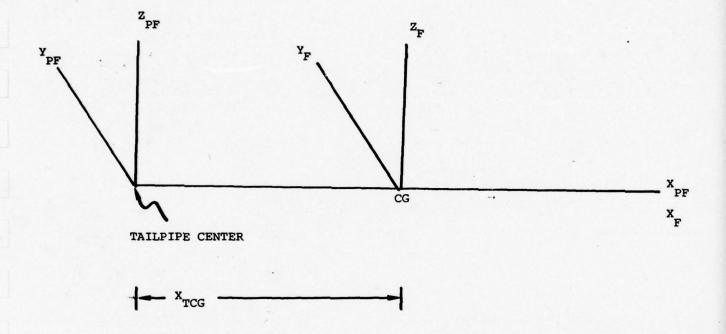
GENERALIZED TARGET COORDINATE SYSTEM FIGURE 7.2

Transformation of Generalized Target Coordinates to Tailpipe Fixed Coordinates

$$\begin{bmatrix} x_{\text{PF}} \\ y_{\text{PF}} \\ z_{\text{PF}} \end{bmatrix} = \begin{bmatrix} \sin\alpha_{\text{T}} & 0 & \cos\alpha_{\text{T}} \\ 0 & -1 & 0 \\ \cos\alpha_{\text{T}} & 0 & -\sin\alpha_{\text{T}} \end{bmatrix} \begin{bmatrix} x_{\text{GN}} \\ y_{\text{GN}} \\ z_{\text{GN}} \end{bmatrix}$$

Transformation of Tailpipe Fixed Coordinates to Origin at Target CG

$$\begin{bmatrix} \mathbf{x}_{\mathbf{F}} \\ \mathbf{y}_{\mathbf{F}} \\ \mathbf{z}_{\mathbf{F}} \end{bmatrix} = \begin{bmatrix} \mathbf{1} - \mathbf{x}_{\underline{\mathbf{TCG}}} & \mathbf{0} & \mathbf{0} \\ \overline{\mathbf{x}}_{\underline{\mathbf{PF}}} & \mathbf{0} & \mathbf{0} \\ \mathbf{0} & \mathbf{1} & \mathbf{0} \\ \mathbf{0} & \mathbf{0} & \mathbf{0} \end{bmatrix} \begin{bmatrix} \mathbf{x}_{\underline{\mathbf{PF}}} \\ \mathbf{y}_{\underline{\mathbf{PF}}} \\ \mathbf{z}_{\underline{\mathbf{PF}}} \end{bmatrix}$$



TAILPIPE TARGET FIXED AND TARGET FIXED COORDINATE SYSTEM RELATIONSHIP FIGURE 7.3

MISSILE PATH PROJECTION

The missile path projection is computed in target fixed coordinates referenced to the target tailpipe. This projection is based upon a linear curve fit of real time relative-position-data.

For a least squares approximate linear curve fit, the projection equations are

$$Y_F = a_1 X_F + b_1$$

$$Z_F = a_2 X_F + b_2$$

The least square approximate fit for a and b is obtained from the simultaneous solution of the following equations.

$$a_{1}\sum_{i=1}^{n} x_{F_{i}}^{2} + b_{1}\sum_{i=1}^{n} x_{F_{i}} = \sum_{i=1}^{n} x_{F_{i}}$$

$$a_{1} \sum_{i=1}^{n} x_{F_{i}} + b_{1} n = \sum_{i=1}^{n} y_{F_{i}}$$

Then, a2 and b2 can be solved similarly

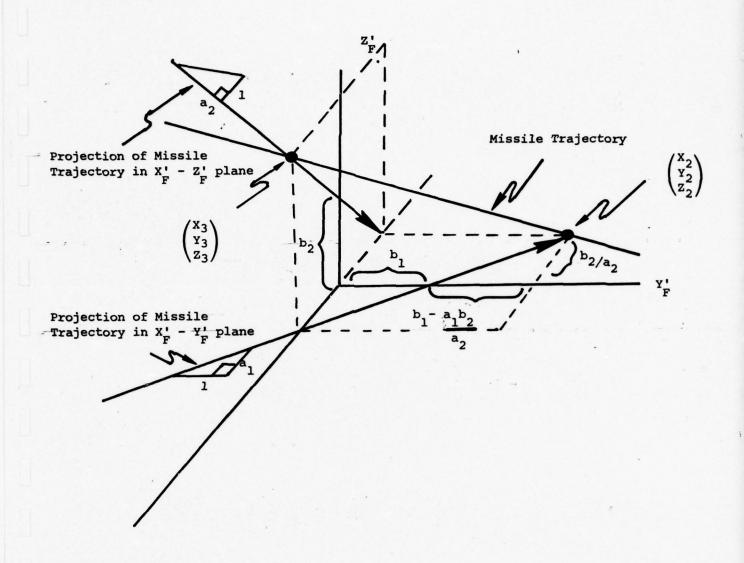
$$a_{2} \overset{n}{\underset{i=1}{\sum}} \overset{n}{\underset{i}{\underset{r}{\sum}}} + b_{2} \overset{n}{\underset{i=1}{\sum}} \overset{n}{\underset{i}{\underset{r}{\sum}}} = \overset{n}{\underset{r}{\underset{r}{\sum}}} \overset{n}{\underset{r}{\underset{r}{\sum}}} \overset{n}{\underset{r}{\underset{r}{\sum}}}$$

$$a_{2} \overset{n}{\underset{i=1}{\Sigma}} x_{F} + b_{2} \overset{n}{\underset{i=1}{\Sigma}} z_{F}$$

where n is the number of real time data collection points.

Then, the piercing points of the missile trajectory into the $X_F' - Y_F'$ plane, $X_F' - Z_F'$ plane and the $Y_F' - Z_F'$ plane is computed. These values are printed as:

XM(1), YM(1), ZM(1) - the piercing point in the $Y_F^{'}$ - $Z_F^{'}$ plane



Projections of Missile Trajectory onto X $_{F}^{\prime}$ - Y $_{F}^{\prime}$ plane and X $_{F}^{\prime}$ - Z $_{F}^{\prime}$ plane

FIGURE 7.4

XM(2),YM(2),ZM(2) - the piercing point in the $X_F'-Y_F'$ plane, and XM(3),YM(3),ZM(3) - the piercing point in the $X_F'-Z_F'$ plane

The above piercing point are deduced from geometry as

$$\begin{bmatrix} X_{\mathbf{F}1}^{\prime} \\ Y_{\mathbf{F}1}^{\prime} \\ Z_{\mathbf{F}1}^{\prime} \end{bmatrix} = \begin{bmatrix} 0 \\ b_{1} \\ b_{2} \end{bmatrix} \times \begin{bmatrix} XM(1) \\ YM(1) \\ ZM(1) \end{bmatrix}$$

$$\begin{bmatrix} X_{F2}^{E} \\ Y_{F2}^{I} \\ Z_{F2}^{I} \end{bmatrix} = \begin{bmatrix} -b_{2}/a_{2} \\ b_{1} - \frac{a_{1}b_{2}}{a_{2}} \\ 0 \end{bmatrix} = \begin{bmatrix} XM(2) \\ YM(2) \\ ZM(2) \end{bmatrix}$$

$$\begin{bmatrix} x_{F3}' \\ y_{F3}' \\ z_{F3}' \end{bmatrix} = \begin{bmatrix} -b /a \\ 0 \\ b_2 - \frac{a_2b_1}{a_1} \end{bmatrix} = \begin{bmatrix} xM(3) \\ yM(3) \\ zM(3) \end{bmatrix}$$

Then, the nearest approach of the missile trajectory to origin is computed in the Y_F' - Z_F' plane, X_F - Y_F plane and the X_F - Z_F plane respectively as:

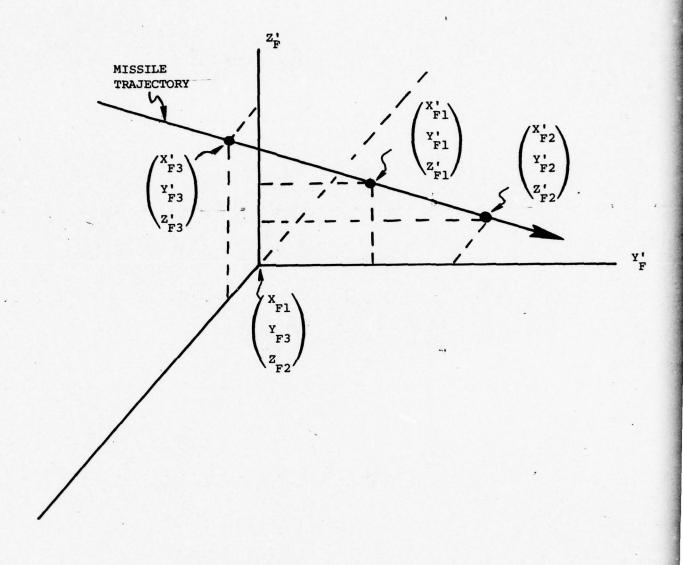
$$RM(1) - \sqrt{\chi_{F1}^{12} + \chi_{F1}^{12} + Z_{F1}^{12}}$$

$$RM(2) = \sqrt{X_{F2}^{'2} + Y_{F2}^{'2} + Z_{F2}^{'2}}$$

$$RM(3) = \sqrt{X_{F3}^{12} + Y_{F3}^{12} + Z_{F3}^{12}}$$

Here the origin of the $X_{\mathbf{F}}^{1}$ - $Y_{\mathbf{F}}^{1}$ - $Z_{\mathbf{F}}^{1}$ system is

$$\begin{bmatrix} x'_{F1} \\ y'_{F3} \\ z'_{F2} \end{bmatrix} = \begin{bmatrix} 0 \\ 0 \\ 0 \end{bmatrix}$$



ISOMETRIC PROJECTION OF MISSILE TRAJECTORY PIERCING POINTS IN TARGET FIXED COORDINATES
FIGURE 7.5,

COMPUTER VARIABLE	PHYSICAL VARIABLE	DESCRIPTION
FXA FYA FZA		Elements of the matrix transformation from launch coordinates to generalized target coordinates
FXB FYB FZB		
FXC FYC FZC		
DX DY DZ	X _{ML} - X _{TL} Y _{ML} - Y _{TL} Z _{ML} - Z _{TL}	Data collected during real time range table search (see PPX(I) PPY(I) and PPZ(I) in Subroutine REALT)
XT YT ZT	X _{MGN} - X _{TGN} Y _{MGN} - Y _{TGN} Z _{MGN} - Z _{TGN}	
AAA	a _s	Speed of sound in air
ZZZ VT	h _{asl} v _T	Target altitude in earth fixed coordinate + altitude of launch site above sea level Velocity of target
XDEF YDEF ZDEF	X _{TE} Y _{TE} Z _{TE}	Target maneuver velocity at time of first real time data collection point
QM	Q _m	Mach number of target
CLA	C _L _{α_T}	Aerodynamic lift coefficient of target due to angle of attack
WT '	$w_{\mathbf{T}}$	Weight of target
ST	$\mathbf{s_{T}}$	Reference surface area of target
AT	$\alpha_{\mathbf{T}}$	Angle of attack of target
xs ys zs	X _{MGN} - X _{TGN} Y _{MGN} - Y _{TGN} Z _{MGN} - Z _{TGN}	The last real time data point collected, expressed in generalized launch coordinates
,	X _{TCG}	Distance from tailpipe center to CG measured along target centerline
	x _{PF}	

COMPUTER VARIABLE	PHYSICAL VARIABLE	DESCRIPTION
S2	$\cos(\theta_{L})\cos(\psi_{L})$	Elements of coordinate transformation launch coordinates to earth fixed
SPL		coordinates
S3	$\sin(\theta_L)\cos(\psi_L)$	
S 4	$\cos(\theta_{L})\sin(\psi_{L})$	
CPL	$\cos{(\psi_{ m L})}$	
S5 .	$\sin(\theta_L)\sin(\psi_L)$	
STL	$\sin(\theta_L)$	
CTL	$\cos(\theta_{L})$	
N		The number of data points collected during real time data collection
vvvv	V _T (0)	Speed of target at time = 0
XM(1),YM(1), ZM(1)	X' _{F1} ,Y' _{F1} ,Z' _{F1}	Missile trajectory piercing point in YF - ZF plane
XM(2),YM(2), ZM(2)	X _{F2} ,Y _{F2} ,Z _{F2}	Missile trajectory piercing point in X' - Y' plane
XM(3),YM(3) ZM(3)	x _{F3} , y _{F3} , z _{F3}	Missile trajectory piercing point in X' - Z' plane
RM (1),RM (2); RM (3)	a,	Distance of each piercing point from origin of X' - Y' - Z' system
YA	a ₁	See equations
ZA	a ₂	See equations

VIII. SUBROUTINE GUID



VIII. SUBROUTINE GUID

(Coordinate transformation from earth fixed to launch coordinates)

$$\begin{bmatrix} \mathbf{X}_{L} \\ \mathbf{Y}_{L} \\ \mathbf{Z}_{L} \end{bmatrix} = \begin{bmatrix} \cos\theta_{L} & \cos\theta_{L} & \sin\theta_{L} & -\sin\theta_{L} \\ -\sin\theta_{L} & \cos\theta_{L} & 0 \\ \sin\theta_{L} & \cos\theta_{L} & \sin\theta_{L} & \cos\theta_{L} \end{bmatrix} \begin{bmatrix} \mathbf{X}_{E} \\ \mathbf{Y}_{E} \\ \mathbf{Z}_{E} \end{bmatrix}$$

TABLE 8.1 DESCRIPTION OF SYMBOLS FOR SUBROUTINE GUID

PROGRAM VARIABLE	SYMBOL	DESCRIPTION
XD YD ZD		Components in earth fixed coordinate system
XDTG YDTG ZDTG		Components in launch coordinate system
cosso		+ cose _L
SINSCO		+ cosψ _L + sinψ _I
SINSO		+ sine _L

8.1

IX. SUBROUTINE INIT



IX. SUBROUTINE INIT

This subroutine computes the range table for real-time data collection and the initial conditions for the analog computer. More detail concerning the equations, given here, can be obtained in the section dealing with real-time digital computation.

Initial Velocity of Target in Launch Coordinate System

$$\begin{bmatrix} \dot{\mathbf{x}}_{\mathrm{TL}}(0) \\ \dot{\mathbf{y}}_{\mathrm{TL}}(0) \\ \dot{\mathbf{z}}_{\mathrm{TL}}(0) \end{bmatrix} \begin{bmatrix} \cos\theta_{\mathrm{L}} & \cos\theta_{\mathrm{L}} & \sin\theta_{\mathrm{L}} & -\sin\theta_{\mathrm{L}} \\ -\sin\psi_{\mathrm{L}} & \cos\psi_{\mathrm{L}} & 0 \\ \sin\theta_{\mathrm{L}} & \cos\psi_{\mathrm{L}} & \sin\theta_{\mathrm{L}} & \sin\phi_{\mathrm{L}} \end{bmatrix} \begin{bmatrix} \dot{\mathbf{x}}_{\mathrm{TE}}(0) \\ \dot{\mathbf{y}}_{\mathrm{TE}}(0) \\ \dot{\mathbf{z}}_{\mathrm{TE}}(0) \end{bmatrix}$$

where
$$\theta_{L} = \theta_{L}(0)$$

 $\psi_{L} = \psi_{L}(0)$

This transformation is performed in SUBROUTINE GUID

NOTE: The transformation is orthonormal therefore $A^{-1} = A^{T}$

Dive Angle

SEO =
$$tan^{-1} \frac{\dot{z}_{TE}(0)}{\sqrt{\dot{x}_{TE}^2(0) + \dot{Y}_{TE}^2(0)}}$$
, if $\dot{Y}_{TE}(0) \neq 0$

NOTE: For all other cases see computations performed in program MAIN

Initial Angle of Attack

$$a = 1116.89 + .003894 h_{asL} (SLUGS/FT^3)$$

$$\rho = .00237692 e^{.00003hasL}$$
 (FT/SEC)

$$Q_m = V_T/a_s$$

$$C_{L_{\alpha_T}} = CLAA|_{Q_m}$$

$$\alpha = \frac{2W_{T}}{\rho V_{T}^{2} C_{L_{\alpha_{T}}} S_{T_{g}}}$$

$\chi_{TE}^{2}(0) + \chi_{TE}^{2}(0) + \chi_{TE}^{2}(0)$

Initial cos(ε)

$$\cos(\varepsilon) = \{(\sin\theta_L)(\dot{Z}_{TE}(0) \cos\alpha - \sqrt{\dot{\chi}_{TE}^2(0) + \dot{Y}_{TE}^2(0)} \sin\alpha) - (\cos\alpha + \dot{Z}_{TE}(0) \sin\alpha / \sqrt{\dot{\chi}_{TE}(0) + \dot{Y}_{TE}(0)}) \cdot (\dot{X}_{TE}(0) \cos\theta_L \cos\psi_L + \dot{Y}_{TE}(0) \cos\theta_L \sin\psi_L)\}/V_T$$

Initial Apparent Plume Length to Breadth Ratio

$$\ell/B = (L/B) \sqrt{1 - \cos^2(\epsilon)}$$

Initial Los

$$L_{x} = -R_{i} \cos \theta_{L} \cos \psi_{L}$$

$$L_y = -R_i \cos \theta_L \sin \psi_L$$

$$L_z = R \sin \theta_L$$

Initial Horizon Reference Vector

$$\beta = \cos^{-1} \frac{L_y}{\sqrt{L_x^2 + L_y^2}}$$

$$C_{x} = -\cos(\beta)$$

$$C_y = -\sin(\beta)$$
, if $X_{Los} < 0$
+ $\sin(\beta)$, if $X_{Los} \ge 0$

Initial Target Centerline Vector

$$C_{L_{X}} = \frac{\dot{X}_{TE}(0) (\cos \alpha + \dot{Z}_{TE}(0) \sin \alpha)}{\sqrt{\dot{X}_{TE}^{2}(0) + \dot{Y}_{TE}^{2}(0)}}$$

$$C_{L_y} = \frac{\dot{Y}_{TE}(0) (\cos \alpha + \dot{Z}_{TE}(0) \sin \alpha)}{\dot{X}_{TE}^2(0) + \dot{Y}_{TE}^2(0)}$$

$$C_{L_z} = \dot{Z}_{TE}(0) \cos \alpha - \sqrt{\dot{X}_{TE}^2(0) + \dot{Y}_{TE}^2(0)} \sin \alpha - V_{TE}$$

Initial Plume Rotation Angle

$$\theta = \cos^{-1} \frac{C_x (L_y C_{Lz} - L_z C_y) + C_y (L_z C_x - L_x C_z)}{\sqrt{L_y C_{Lz} - L_z C_{Ly})^2 + (L_z C_{Lx} - L_x C_{Lz})^2 + (L_x C_{Ly} - L_y C_{Lx})^2}}$$

$$D_z = L_x C_{Ly} - L_y C_{Lx}$$

$$T_{\rm rp}$$
 = $\pi/2$ - θ , if $D_{\rm z}$ < 0
 $\pi/2$ + θ , if $D_{\rm z}$ > 0 and θ < $\pi/2$
 θ -3 $\pi/2$, if $D_{\rm z}$ > 0 and θ > $\pi/2$

Initial Plume Iris Ratio

$$H_{c7} = 1209.675 \text{ H} \Big|_{R=7000} e^{-2.341(\ln(R_{i}/22965.831))}$$
 (w/cm²)

$$P_1 = 2 \tan^{-1}(\frac{B/2}{\ell})$$
 (DEG)

$$P = (f) (i)$$

$$|\overline{L}_{OS}|$$
(IN)

$$A_{t7} = \frac{P_2^2 \sin (P_1)}{2\cos^2(P_1/2)}$$
 (IN)²

$$J_{tu7} = e^{1.003258(1nA_{t7}/10)}$$
 (W/STER)

$$I_{r7} = \frac{\frac{H_{c7}}{T_{fplume}}}{\frac{J_{tu}}{J_{tu}}}$$

$$i_7 = i_7(I_{r7})$$
 (table look up)

TABLE 9.1 DESCRIPTION OF SYMBOLS FOR SUBROUTINE INIT

PROGRAM VARIABLE	SYMBOL	DESCRIPTION
NPTS		Number of real-time data collection points
XTERM		Distance between target and missile at last data collection point
DX		Distance between real-time data collection points
GGG	Y _{min}	Minima of the overload function (see SUBROUTINE KSCALE)
DIF		The difference between the data collection distance commanded and the largest data collection distance possible with the analog scaling given.
NADJ		New value for NPTS if NPTS is too large
XD,XDX	Х _{ТЕ} (0)	
YD,YDY	Y _{TE} (0)	Target initial velocity in earth coordinates
ZD, ZDZ	ž _{TE} (0)	Coordinates
XDTG	x _{TL} (0)	
YDTG	Υ _{TL} (0)	Target initial velocity in launch coordinates
ZDTG	ż _{TL} (0)	
ккк		$KKK = 0 \text{ if } Y_{TE}(0) \neq 0$
		$1 \text{ if } Y_{\text{TE}}(0) = 0$
SEO		Dive angle (Note, some cases are computed in MAIN)

		
PROGRAM VARIABLE	SYMBOL	DESCRIPTION
XDTGM(I)	x _{TL}	
YDTGM(I)		Target velocity tables in launch
ZDTGM(I)	Y _{TL}	coordinates
2D104(1)	Z _{TL}	
IS1		Print flag, IS1 \(\neq 1 \) indicates print desired
AAA	a _s	Speed of sound
ZZZ	h _{asL}	Specific target altitude in earth fixed coordinates + altitude of missile launch site above sea level (FT)
РНО	p	Air density (SLUGS/FT ³)
QM	Q _m	Mach number of target
vvvv	v_{T}	Velocity of target (Computed in MAIN)
CLA	C _L ^α T	Aerodynamic lift coefficient of target due to angle of attack
CLAA		Table containing CLA as a function of mach number
WI	W _T	Weight of target
ST	S _T	Reference surface area of target
XEU	X _{TE} (0)	
YEU	X _{TE} (0) Y _{TE} (0)	Initial acceleration of target in earth fixed coordinates
ZEU	Ž _{TE} (0)	car an Tixed Cooldinates
AT	α	Initial target angle of attack
STL		$sin(\theta_L)$

PROGRAM VARIABLE	SYMBOL	DESCRIPTION
Cl		cos (α)
S9		$\chi_{TE}^{2}(0) + \chi_{TE}^{2}(0)$
S1		sin (α)
S2		$\cos (\theta_L) \cos (\psi_L)$
S4		$\cos (\theta_L) \sin (\psi_L)$
RLB	ı/B	Apparent ratio of plume length to breadth
RLBK	L/B	Actual ratio of plume length to breadth
xlos	L _x	
YLOS	Ly	Initial components of L in earth fixed coordinates
ZLOS	L _z	-ut
R	R _i	Initial range of target (FT)
ВЕТ	β	$\cos^{-1} \left(\frac{L_y}{\sqrt{L_x^2 + L_y^2}} \right)$
L _x	L _x	Components of Horizon Reference vector in earth fixed coordinates
L _y	Ly	vector in earth fixed coordinates
CLX	$C_{L_{h_{a}}}$	Commonants of target center line
CITA	C _L ,	Components of target center line vector in earth fixed coordinates
CLZ	$c_{\mathrm{L_{z}}}^{\mathrm{C_{L_{z}}}}$	
TRP	T _{rp}	Initial plume rotation angle

PROGRAM VARIABLE	SYMBOL	DESCRIPTION
THE	θ	
HC7FT	H _{c7}	Commanded irradiance for plume
Plirss	P ₁	Vertex angle of plume transparency (DEG)
P2IRSS	P ₂	Length of plume transparency (IN)
AT7	A _{t7}	Area of plume transparency
RN	i ₇	Iris ratio number 7
	f	Focal length of projection lens
	l.	Apparent length of plume

APPENDIX A. STINGER CODE



APPENDIX A

This Appendix contains a proposed, structured version of the MICOM Hybrid STINGER program. Usage would require the following changes:

- 1. Under "Manual Selection of Launch Conditions" where the variables KA, ITT, TAU, IRSS are read from a card the program should be altered to read these variables from the terminal.
- 2. In order to integrate the new FLIGHT and REALT programs into the structured STINGER package, a few changes in the common blocks and variables in FLIGHT and REALT will be necessary.
- 3. In the structured version of STINGER only the programs MAIN and INIT have been essentially altered. Some cleaning up and alteration may be necessary in the subroutines which perform the post real-time calculations.
- 4. There are now two interpolation routines INTERP and LINTRP. LINTRP is much faster and INTERP should probably be removed unless higher order interpolation than linear is desired.

INPUTS TO STRUCTURED STINGER PROGRAM

IS1 PRINT FLAG

IS1 = 0 for limited printout IS1 = 1 for full printout

format I5

NRUNS DESIRED NUMBER OF RUNS PER FLIGHT CONDITION

1 NRUNS 20 format I5

NPTS, DX, XTERM

NPTS = NUMBER OF DATA POINTS TO BE COLLECTED 1 NPTS 50

DX = DELTA RANGE BETWEEN COLLECTED DATA POINTS

XTERM = X SEPARATION AT WHICH REAL TIME IS TERMINATED format I10, 2F10.0

NL NUMBER OF SETS OF LAUNCH CONDITIONS

1 NL 61 format I5

(ZTEO(I), ASC(I), RR(I), I = 1, NL)

THESE ARE THE NL SETS OF LAUNCH CONDITIONS

ZTEO(I) IS THE I-TH INITIAL ALTITUDE

ASC(I) IS THE I-TH CROSSING ANGLE

RR(I) IS THE I-TH INITIAL RANGE

format 3F10.2

III LAUNCH SELECTION FLAG

III = 0 for manual selection
III = 1 for automatic selection

format I5

NOTE: FROM THIS POINT ON, THE INPUTS TO BE SUPPLIED DEPEND

ON THE VALUE OF III CHOSEN ABOVE.

THE FOLLOWING INPUTS ARE READ ONLY IF III = 0 (MANUAL SELECTION) OR AFTER A FULL SET OF AUTOMATIC RUNS IS COMPLETED.

KA = NUMBER OF LAUNCH SET TO BE USED

ITT = NUMBER OF TARGET TRAJECTORY TO BE USED

TAU = TIME POINT ON THE TARGET TRAJECTORY AT WHICH

THE MISSILE IS LAUNCHED

IRSS IS THE IRSS FLAG

IRSS = 0 NOT AN IRSS RUN

IRSS = 1, IRSS RUN

AFTER A MANUAL RUN IS COMPLETED, THE PROGRAM WILL CYCLE AND READ NEW VALUES OF KA, ITT, TAU, IRSS

THERE ARE TWO SPECIAL CONVENTIONS ON KA.

format 215, F5.1, I5

KA negative - restart program at very beginning KA > 61 - terminate program

THE FOLLOWING INPUTS ARE READ ONLY IF III = 1 (AUTOMATIC SELECTION)

NSAM QUALITY CONTROL TEST CASE SAMPLE SIZE

2≤NSAM≤11 format I5

ICON CONTINUATION FLAG

ICON = 1 continue after quality control failure
ICON = 2 rerun previous runs after quality control failure
format I5

INL INITIAL LAUNCH SET NUMBER

1 ≤ INL ≤ NL
format I5

(CLMS(1), CLS1(I), CLS2(I), I = 1, 10)

DATA FOR COMPUTING CONTROL LIMITS format 3 F6.3

Q1, Q2, Q3, Q4, Q5, Q6

DATA FOR COMPUTING CONTROL LIMITS format 6F10.4

W1, W2, W3, W4, W5, W6

DATA FOR COMPUTING CONTROL LIMITS format 6F10.4

VARIABLE REFERENCE LIST

VARIABLE	COMMON BLOCK	USE
AAA		Speed of sound
AARUNS		
AASUM		Averages related to kill probabilities
ABRUNS		
ABSUM	COMM	
ADSF(10)	COMM	Array of analog-to-digital scale factors
ARB(20)		Array for storing miss distances relative to tailpipe
ARBT(20)		Array for storing miss distances relative to C
ARC(20)		See ARB
ARCT(20)		See ARBT
ARM(20)		See ARB
ARMT(20)		See ARBT
AS	EXTRA	Target crossing angle
ASC(61)		Table of target crossing angles
ASEO		Target dive angle (degrees)
AT	GTARG	Initial target angle of attack
AXB(20)		See ARB
AXBT(20)		See ARBT
AXC(20)		See ARB
AXCT(20)		See ARBT
AXM(20)		See ARB
AXMT(20)		See ARBT
AYB(20)		See ARB
AYBT(20)		See ARBT
AYC(20)		See ARB
AYCT(20) AYM(20)		See ARBT See ARB
AYMT(20)		See ARBT
AZB(20)		See ARB
AZBT(20)		See ARBT
AZC(20)		See ARB
AZCT(20)		See ARBT
AZM(20)		See ARB
AZMT(20)		See ARBT
A1		Target angle of attack (RADIANS)
A1P1	COMP	7
A1P2	COMP	
A1P3	COMP	Control limits
A1P4	COMP	

VARIABLE	COMMON	USE
	BLOCK	
AIDE	COMP	
A1P5	COMP	Control limits
A1P6	COMP	Control limits
A2P1	COMP	
A2P2	COMP	
A2P3	COMP	
A2P4	COMP	
A2P5	COMP	
A2P6	COMP	
BDHX(22)	PK	
BDHY(22)	PK	Tables related to lethality
BDHZ(22)	PK J	
CA		Cosine of target angle of attack
CLA		Target lift coefficient
CLAA(10)	RTCOM	Target lift coefficient table (function of mach)
CLMS(10)	COMP	
CLS1(10)	COMP	Data for calculating control limits
CLS2(10)	COMP	
CLX		Components of initial target center line vector
CLY		
CLZ	,	
COSE		Cosine of the angle between the line of sight
~~~~	2222	and the target center line
COSEI	RTCOM	Initial value of cose
COSMU1	MU	Terms of a transformation matrix (see
COSMU2	MU	subroutine PRIME)
COSMU3	MU	
COSSCO	ANG	Cosine of PSILR
COSSO	ANG	Cosine of THETLR
CPL	RTCOM	= COSSCO
CTL	RTCOM	= COSSO
CX		Components of initial horizon reference vector
CY		
C1	#DAG:	Cosine of AT
DAOUT1	*DAC1	
DAOUT2	*DAC1	77
DAOUT3	*DAC1	Variables which are converted from digital
DAOUT4	*DAC1	to analog
DAOUT5	*DAC1	
DAOUT6	*DAC1	

VARIABLE	COMMON	USE
		•
DAOUT7	*DAC1	
BTUOAC	*DAC1	Variables which are converted from digital
DAOUT9	*DAC1	to analog
DAOUT10	*DAC1	
DAOUT11	*DAC1	
DASF(11)	COMM	Array of digital to analog scale factors
DELTAR(30)	MISL	Target range table (function of time)
DT		Current time in real time
DTF	RTCOM	Value of DT at termination of real time
DTR		Conversion factor-degrees to RADIANS
DX	EXTRA	Delta range between collected data points
DX		X separation between target and missile
DXG	RTCOM	Value of DX at termination of real time
DY		Y separation between target and missile
DYG	RTCOM	Value of DY at termination of real time
DZ		Z separation between target and missile
DZG	RTCOM	Value of DZ at termination of real time
ECOS(17)	RTCOM	Table used in calculating IRIS ratio 7
EDOT	RTCOM	GGG/G
FCI77(9)	RTCOM	Table used in calculating IRIS ratio 7
FI7T(9)	RTCOM	Table used in calculating IRIS ratio 7
FXA	GTARG	
FXB	GTARG	
FXC	GTARG	
FYA	GTARG	Terms of a transformation matrix (see
FYB	GTARG	subroutine MISCOM)
FYC	GTARG	
FZA	GTARG	
FZB	GTARG	
FZC	GTARG	
G	RTCOM	Estimated time at 1000 feet to go
GGG	RTCOM	Parameter used in variable analog scale fact
HR7EE(17)	RTCOM	Table used in calculating IRIS ratio 7
IADIN1	*ADC1	
IADIN2	*ADC1	
IADIN3	*ADC1	Values resulting from analog to digital
IADIN4	*ADC1	conversion
IADIN5	*ADC1	
IADIN6	*ADC1	

VARIABLE	COMMON BLOCK	USE
IADIN7	*ADC1	Yalves resulting from engles to digital
IADIN8	*ADC1	Values resulting from analog to digital conversion
IADINO	*ADC1	Conversion
IADINI	*ADC1	
ICN		Number 2 diameter and
	MISD	Number of the current real time run (1 ICN NR)
ICON		Flag to indicate continuation after quality control failure
IERR		Error flag for equipment reservation
IFT	COMP	Flag for quality control failure
ш	MANEUV	Flag to indicate manual or automatic launch selection
IIN	*IDIS2	Input discrete word
INFLRT	СОММ	Flag to indicate first pass through real time code
INL		Launch set number (automatic selection)
IOUT	*ODIS2	Output discrete word
IPASS		Flag to indicate first pass through main program
IPLANE	COMP	Parameter used in quality control test
IPTS	RTCOM	Number of data points to be collected before intercept
IQC1		Flag to indicate first launch set (automatic sel.)
IRSS		Flag to indicate IRSS run
IS1	PRNT	Flag to indicate full or partial printout
ITAU(60)	MANEUV	Table of launch times (see TAU)
ITRAJ(60)	MANEUV	Table of target trajectory numbers
ITT	MANEUV	Number of current target trajectory
188		Flag to indicate last launch set (automatic selection)
199	COMP	Flag to indicate test case is due
KA		Number of current launch conditions
KILL(22)	PK	Table related to lethality
LEVEL	RTCOM	Flag to indicate target maneuver in progress
LOOP1 LOOP2	COMM COMM	Counters for the two loops in the real time code
LTMAX	COMM	Maximum execution time of real time loop
NADJ	MANEUV	Number of entries in range table (see XXS)
NERR		Error flag for subroutine INTERP
NL		Number of sets of launch conditions
		The state of Addition Conditions

VARIABLE	COMMON BLOCK	USE .
NPATH	СОММ	Flag to indicate which loop to execute in real time code
NPTS NPX	EXTRA	Desired number of data points  Number of data points used in interpolation  (NPX = 2 is linear interpolation)
NR		Number of flights to be performed in current run
NRUNS		Desired number of runs per flight condition
NSAM .	COMP .	Quality control test case sample size (2 NSAM 11)
NT NX	RTCOM	Number of points in target trajectory tables Argument for subroutine interp-number of points in tables
PH0		Air density
PI		3.14159265
PIO2		PI/2.
PPX(50)	RTCOM	Arrays for storing DX, DY, and DZ
PPY(50)	RTCOM	respectively at points corresponding
PPZ(50)	RTCOM	to range table entries (see XXS)
PSIL	WIGOM	PSI launch-one of the two euler angles in the transformation from earth to launch coordinate system (degrees)
PSILR		PSIL converted to RADIANS
QM		Target mach number
QMM(10)	RTCOM COMP	Table of mach numbers (goes with CLAA(10))
Q1		
Q2	COMP	Data for coloulating control limits
Q3	COMP	Data for calculating control limits
Q4	COMP	
Q5	COMP	
Q6	COMP	7-14-7
RI	RTCOM	Initial range-missile to target
RLB	DWGOM	Apparent plume length to breadth ratio
RLBI	RTCOM	Initial value of RLB
RLBK	RTCOM	Actual plume length to breadth ratio
RM(3)	MISD	MISS distance array
RN	D	IRIS ratio 7
RNI	RTCOM	Initial value of RN

U U NG NG	Table of target initial ranges Conversion factor-radians to degrees Sine of target angle of attack Target dive angle (RADIANS) Terms of a transformation matrix (see subroutine PRIME)  Sine of PSILR Sine of THETLR Sense line zero Sense line five
U U NG	Sine of target angle of attack Target dive angle (RADIANS) Terms of a transformation matrix (see subroutine PRIME) Sine of PSILR Sine of THETLR Sense line zero
U U NG	Target dive angle (RADIANS) Terms of a transformation matrix (see subroutine PRIME) Sine of PSILR Sine of THETLR Sense line zero
U U NG	Terms of a transformation matrix (see subroutine PRIME)  Sine of PSILR Sine of THETLR Sense line zero
U U NG	Sine of PSILR Sine of THETLR Sense line zero
u )	Sine of PSILR Sine of THETLR Sense line zero
NG	Sine of THETLR Sense line zero
	Sine of THETLR Sense line zero
NG	Sense line zero
	Sence line five
	Delibe IIIIe IIVe
	Sense line six
	Sense line fifteen
ζ	Variables related to kill probabilities
ζ	
ζ	
rcom	= SINSCO
ζ	See SPHG
	Plume rotation angle
гсом	Initial value of SPO
rcom	= SINSO
	Sine of AT
OMP	
OMP	Control limits
OMP \	
OMP	
OMP	
OMP /	
rcom _	Term of earth-to-launch transformation matrix
OMP	
OMP	
OMP	Control limits
OMP	
OMP	
OMP /	
TCOM	
rcom	See S2
TCOM J	
	OMP OMP OMP OMP OMP OMP OMP OMP OMP OMP

VARIABLE	COMMON BLOCK	USE
TAMA(30)	MISL	Table of times-goes with DELTAR (30) and VM (30)
TAU		Time point on target trajectory at which missile is launched
THETAL	RTCOM	THETA launch - see PSIL (degrees)
THETLR		THETAL converted to RADIANS
TIME(50)	RTCOM	Array for storing DT at points corresponding to range table entries (See XXS)
TM(30)		Table of times-goes with XDEM, YDEM, ZDEM
TMA(30) TRP	RTCOM	Table of times-goes with XDM, YDM, ZDM = SPO
VM(30)	MISL	Target velocity table (function of time)
VMX(50)	RTCOM	Arrays for storing XDOT, YDOT and ZDOT
VMY(50)	RTCOM	Respectively at points corresponding
VMZ(50)	RTCOM	To range table entries (see XXS)
VT	GTARG	Target velocity (in subroutine MISCOM)
VTI		Target velocity in real time
VVVV	EXTRA	Initial target velocity
W1	COMP	
W2	COMP	
W3	COMP	Data for calculating control limits
W4	COMP	
W5	COMP	
W6	COMP	
X		Initial target X corrdinate in earth system
XC		Target velocity X component-earth system
XCOMP		Target velocity X component-launch system
XD	COMB	Used in earth-to-launch transformation (subroutine GUID)
XDDE	COMB	Target acceleration over data collection range-X component
XDEF	COMB	Target velocity at first range table entry-X component
XDEM(30, 45)	MANEUV	Array of 45 target velocity tables in earth system-X components
XDH(22)	PK	Table related to lethality
XDM(30)	RTCOM	Current target velocity table in earth system- component
XDO	RTCOM	Value of XDOT at termination of real time

# VARIABLE REFERENCE LIST (Con't.)

VARIABLE	COMMON BLOCK	USE						
XDOT		Target-missile relative velocity-X component						
XDTG	COMB	See XD						
XDTGMS(30)	RTCOM	Current target velocity table in launch system-X component						
XDTGO	RTCOM	Target initial velocity in launch system-X component						
XE(30)	RTCOM	Target acceleration table-X component						
XLOS		Missile to target line of sight-X component						
XM(3)	MISD	MISS distance array						
XMAN(4,50)	RTCOM	Array for storing DT, XCOMP, YCOMP, ZCOMP at range table entries						
XMISS(7)	RTCOM	Array for storing DX, DY, DZ, XDOT, YDOT, ZDOT and XMISSC if missile misses target						
XMISSC		Variable which indicates a miss						
XTERM	EXTRA	X separation between missile and target at which real time is terminated						
XXS(50)	RTCOM	Range table for data collection-NADJ points separated by DX and ending with XTERM						
XXX		X separation between target and missile- comes from an analog value which is scaled ten times smaller than DX						
Y		Initial target Y coordinate in earth system						
YA	COMD	Related to MISS distance						
YC		Target velocity Y component-earth system						
YCOMP		Target velocity Y component-launch system						
YD	COMB	See XD						
YDDE	COMB	See XDDE-Y component						
YDEF	COMB	See XDEF-Y component						
YDEM(30, 45)	MANEUV	See XDEM-Y components						
YDH(22)	PK	See XDH						
YDM(30)	RTCOM	See XDM-Y component						
YDO YDOT	RTCOM	Value of YDOT at termination of real time See XDOT-Y component						
YDTG	COMB	See XD						
YDTGMS(30)	RTCOM	See XDTGMS-Y component						
YDTGO	RTCOM	See XDTGO-Y component						
YE(30)	RTCOM	See XE-Y component						

#### VARIABLE REFERENCE LIST (Con't.)

VARIABLE	COMMON BLOCK	USE							
YLOS		See XLOS-Y component							
YM(3)	MISD	MISS distance array							
YYY		See XXX-Y component							
Z		Initial target Z coordinate in earth system							
ZA	COMD	See YA							
ZABOVE		Altitude of launch site (negative)							
ZALT	RTCOM	Target altitude (negative)							
ZC		Target velocity Z component-earth system							
ZCOMP		Target velocity Z component-launch system							
ZD	COMB	See XD							
ZDDE	COMB	See XDDE-Z component							
ZDEF	COMB	See XDEF-Z component							
ZDEM(30, 45)	MANEUV	See XDEM-Z component							
ZDH(22)	PK	See XDH							
ZDM(30)	RTCOM	See XDM-Z component							
ZDO	RTCOM	Value of ZDOT at termination of real time							
ZDOT		See XDOT-Z component							
ZDTG	COMB	See XD							
ZDTGMS(30)	RTCOM	See XDTGMS-Z component							
ZDTGO	RTCOM	See XDTGO-Z component							
ZE(30)	RTCOM	See XE-Z component							
ZLÔS		See XLOS-Z component							
ZM(3)	MISD	MISS distance array							
ZTE ^O (61)		Table of target initial altitudes							
ZZZ		See XXX-Z component							

# COMMON BLOCK CROSS-REFERENCE TABLE

	ANG	СОМВ	СОМБ	COMM	COMP	EXTRA	GTARG	MANEUV	MISD	MISL	MU	PK	PRNT	RTCOM
MAIN	Х		Х		х	х		Х	Х			X.	Х	Х
BLOCK DATA								х		х		х		х
FLIGHT				Х										х
GUID	х	х												
HWFLOT														
INIT		X				X		X						Х
INTERP														
KSCALE										х			х	х
LETH			х				х	х	х			х	х	х
LINTRP														
MEAN					х									
MISCOM		х	х			x	х	х	х		х		х	x
PRIME		х						х	х		х		х	х
QCLIM					х									
REALT				х										х

# COMMON/ANG/

cossco

cosso

SINSCO

SINSO

# COMMON/COMB/

XD

XDDE

XDEF

XDTG

YD

YDDE

YDEF

YDTG

ZD

ZDDE

ZDEF

ZDTG

COMMON/COMD/

YA

ZA

# COMMON/COMM/

ADSF (10)

DASF (11)

INFLRT

LOOP1

LOOP2

LTMAX

NPATH

#### COMMON/COMP/

S1P3 A1P1 A1P2 S1P4 S1P5 A1P3 S1P6 A1P4 S2P1 A1P5 S2P2 A1P6 S2P3 A2P1 S2P4 A2P2 S2P5 A2P3 S2P6 A2P4 W1A2P5 W2 A2P6 W3 CLMS (10) W4 CLS1(10) W5 CLS2(10) W6 IFT **IPLANE** 199 NSAM Q1 Q2 Q3 Q4 Q5

A,17

Q6

SIPI

S1 P2

# COMMON/EXTRA/

AS

DX

NPTS

vvvv

XTERM

# COMMON/GTARG/

AT

FXA

FXB

FXC

FYA

FYB

FYC

FZA

FZB

FZC

VT

# COMMON/MANEUV/

Ш

ITAU(60)

ITRAJ(60)

ITT

NADJ

XDEM(30, 45)

YDEM(30, 45)

ZDEM(30, 45)

# COMMON/MISD/

ICN

RM(3)

XM(3)

YM(3)

ZM(3)

# COMMON/MISL/

DELTAR(30)

TAMA(30)

VM(30)

# COMMON/MU/

COSMU1

COSMU2

COSMU3

SINMU1

SINMU2

SINMU3

# COMMON/PK/

BDHX(22)

BDHY(22)

BDHZ(22)

KILL(22)

SPHG

SPHS

SPK

SPM

XDH(22)

YDH(22)

ZDH(22)

COMMON/PRNT/

IS1

#### COMMON/RTCOM/

RLBI CLAA(10) RLBK COSEI RNI CPL SPL CTL SPOI DTF STL DXG **S2** DYG S3 DZG **S4** ECOS(17) S5 EDOT THETAL FCI77(9) TIME(50) FI7T(9) TMA(30) G VMX(50) GGG VMY(50) HR7EE(17) VMZ(50) **IPTS** XDM(30) LEVEL XDO NT XDTGMS(30) PPX(50) **XDTGO** PPY(50) XE(30) PPZ(50)

RI

XMAN(4,50)

XMISS(7)

# COMMON/RTCOM/ (Con't)

XXS(50)

YDM(30)

YDO

YDTGMS(30)

YDTGO

YE(30)

ZALT

ZDM(30)

ZDO

ZDTGMS(30)

ZDTGO

ZE(30)

#### EXPLANATION OF FLOW DIAGRAMS

The flow diagrams included here are hierarchical in nature with a top-down structure. In the first-level flow diagram, the program is broken down into its major modules, numbered I., II., III., etc., and the relationships among these modules are shown.

Each module in the first-level diagram is analyzed in more detail in a second-level flow diagram. For example, module III. in the first-level diagram is broken down into submodules numbered III. A., III. B., III. C., etc.

Some of the second-level modules are broken down further in third-level diagrams. For example, module III. K. in the second-level diagram devoted to module III. is broken down in a third-level diagram into blocks numbered III. K. 1., III. K. 2., etc.

The symbol + appearing before a block number indicates that there is a lower-level diagram devoted to that block.

MAIN PROGRAM

STINGER HYBRID SIMULATION

FIRST-LEVEL FLOW DIAGRAM

# MAIN PROGRAM STINGER HYBRID SIMULATION START INITIALIZATION SECTION ↓I. HAS AUTOMATIC LAUNCH NO YES SELECTION BEEN CHOSEN? III = 1? MANUAL SELECTION SEQUENCER FOR AUTOMATIC ·II. OF LAUNCH CONDITIONS LAUNCH SELECTION ↓III. IS TEST CASE NO FLAG SET? 199 = 1? AUTOMATIC SELECTION ↓IV. OF LAUNCH CONDITIONS SELECTION OF ↓V. TEST CASE LAUNCH CONDITIONS PRE REAL TIME ↓VI. SET UP ψVII. FLIGHTS

POST FLIGHT COMPUTATIONS

AND QUALITY TESTING

TO II., III., IV. OR

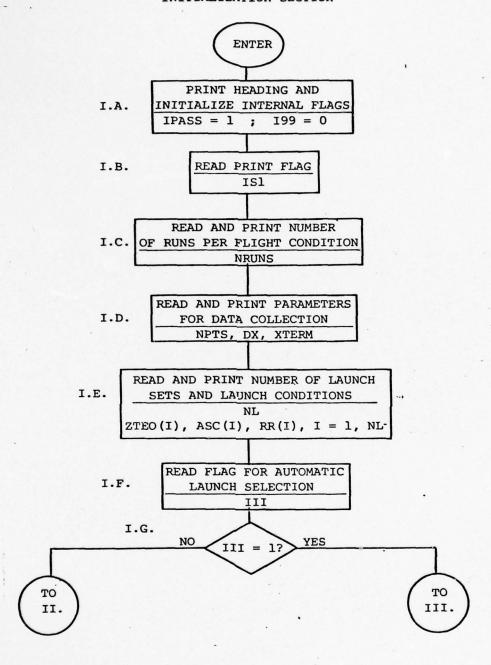
↓VIII.

MAIN PROGRAM

STINGER HYBRID SIMULATION

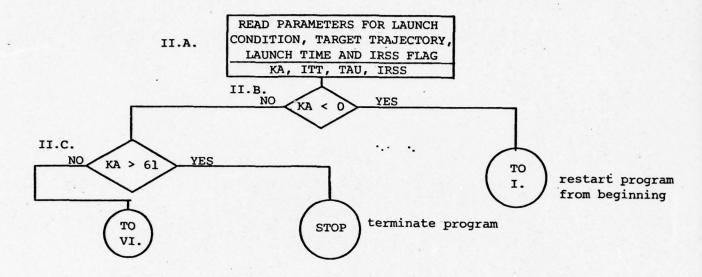
SECOND-LEVEL FLOW DIAGRAMS

#### INITIALIZATION SECTION

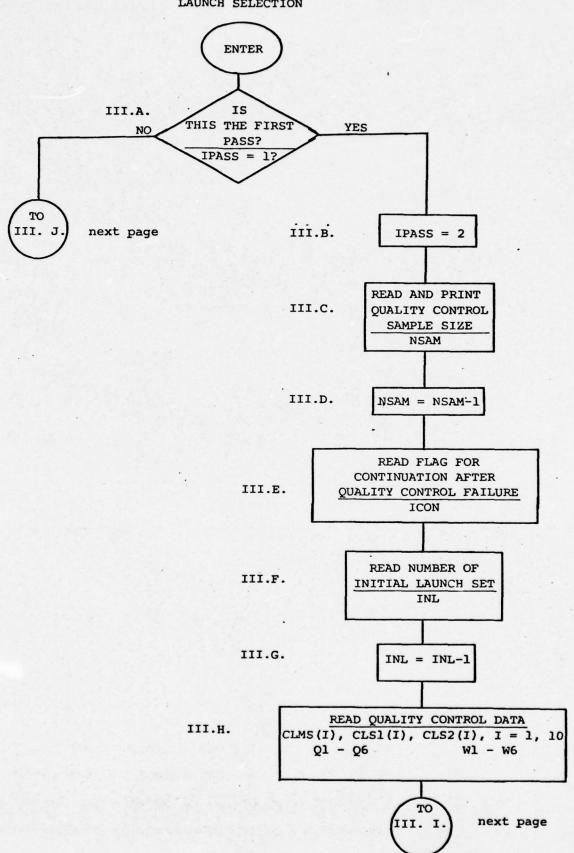


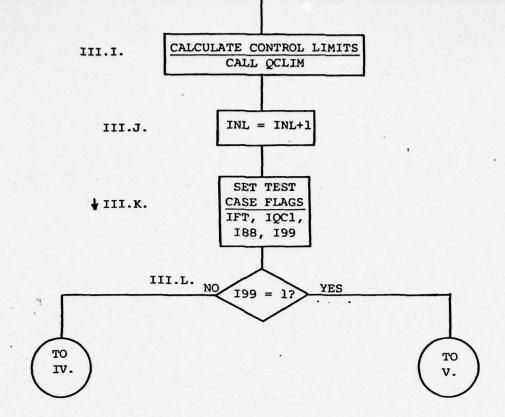
# MANUAL SELECTION OF LAUNCH CONDITIONS

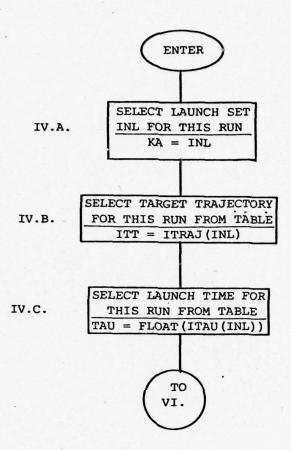
#### ENTER

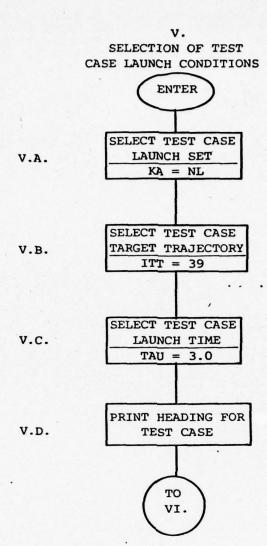


III. SEQUENCER FOR AUTOMATIC LAUNCH SELECTION

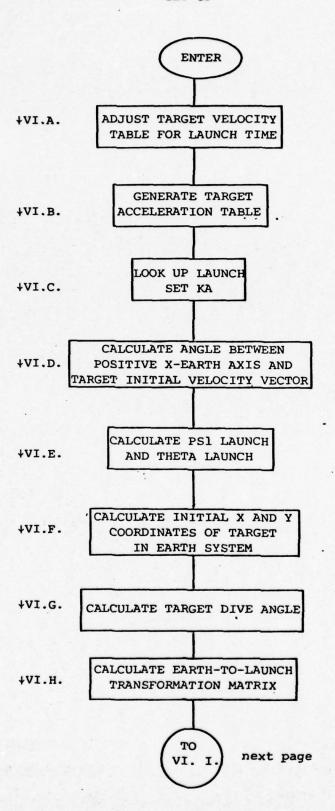


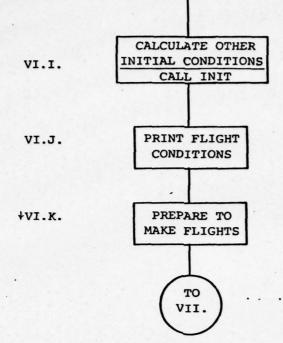




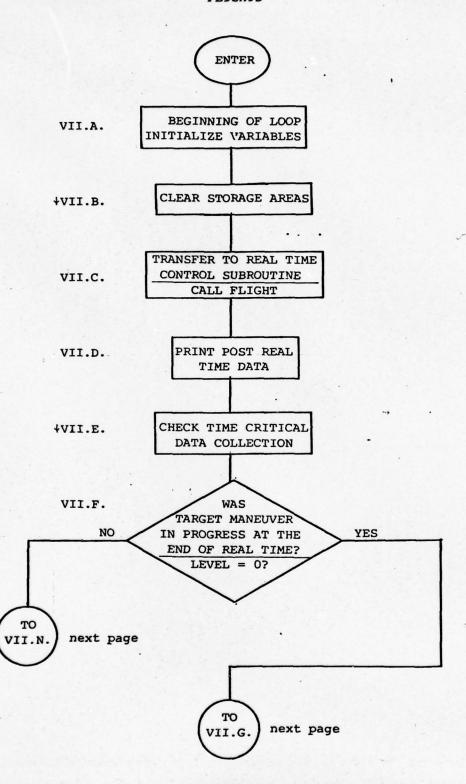


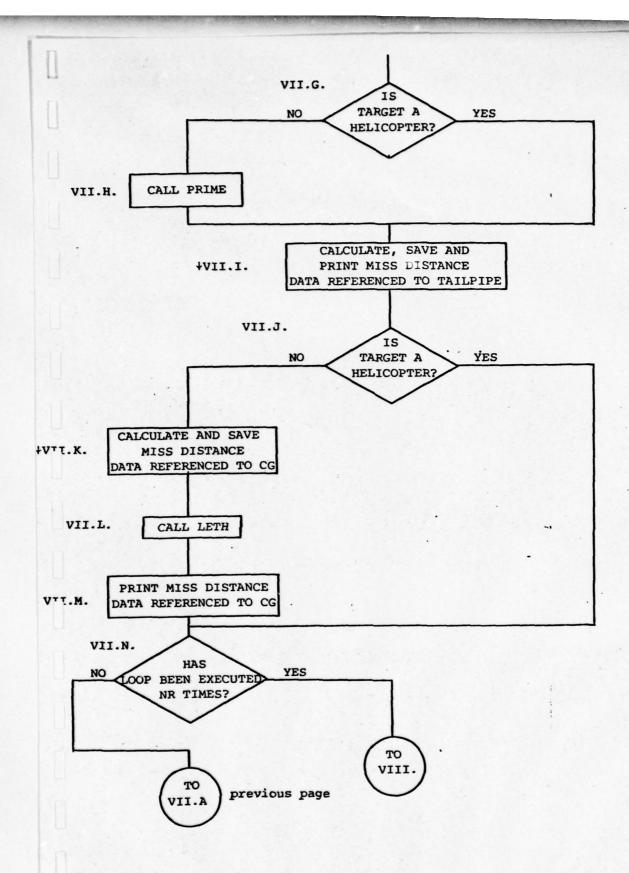
VI. PRE REAL TIME SET UP



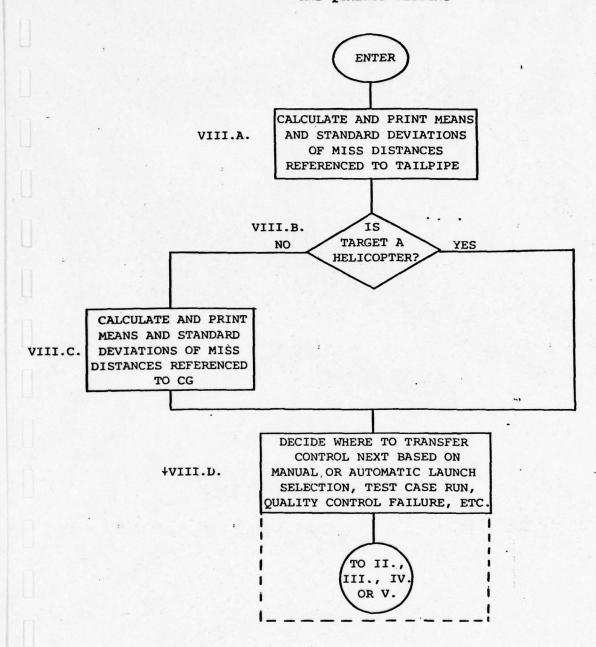


VII. FLIGHTS





VIII.
POST FLIGHT COMPUTATIONS
AND QUALITY TESTING

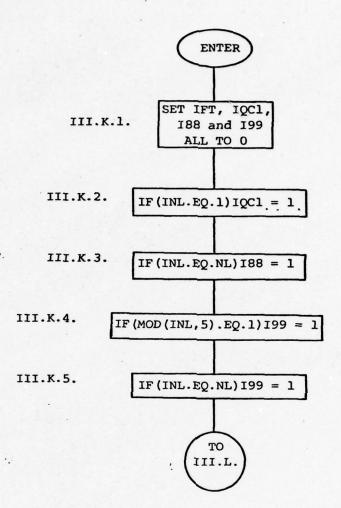


MAIN PROGRAM

STINGER HYBRID SIMULATION

THIRD LEVEL FLOW DIAGRAMS

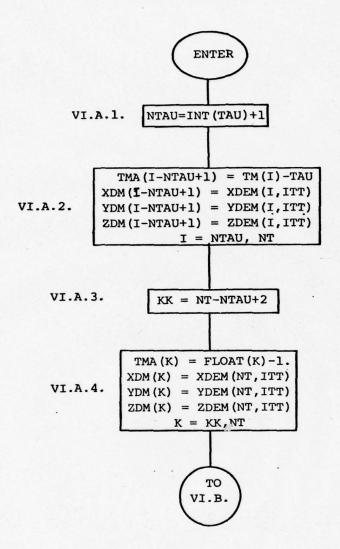
III.K. SET TEST CASE FLAGS



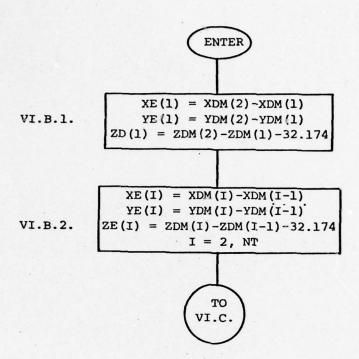
VI.A.

ADJUST TARGET VELOCITY

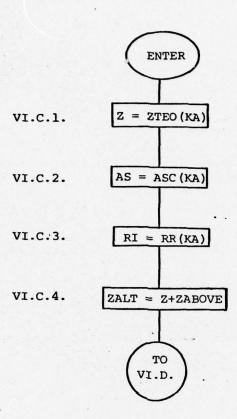
TABLE FOR LAUNCH TIME



VI.B. GENERATE TARGET ACCELERATION TABLE



VI.C. LOOK UP LAUNCH SET KA

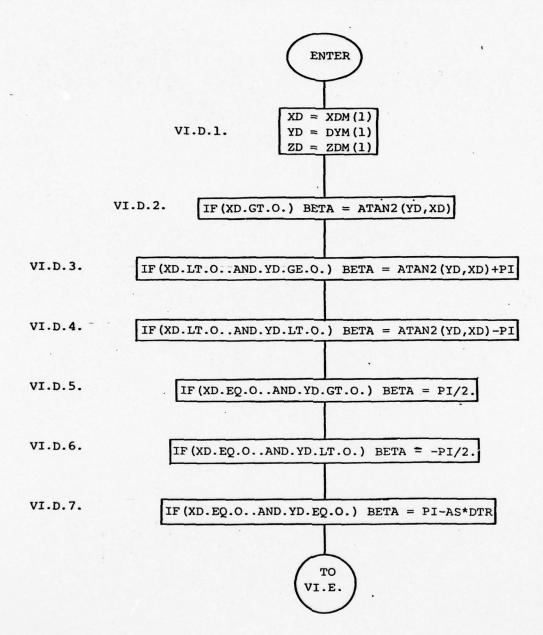


VI.D.

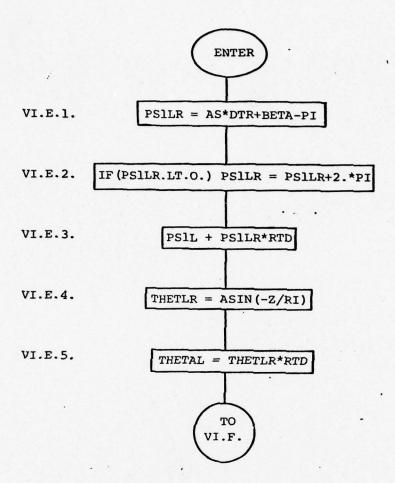
CALCULATE ANGLE BETWEEN

POSITIVE X-EARTH AXIS AND

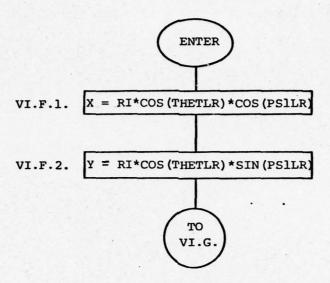
TARGET INITIAL VELOCITY VECTOR



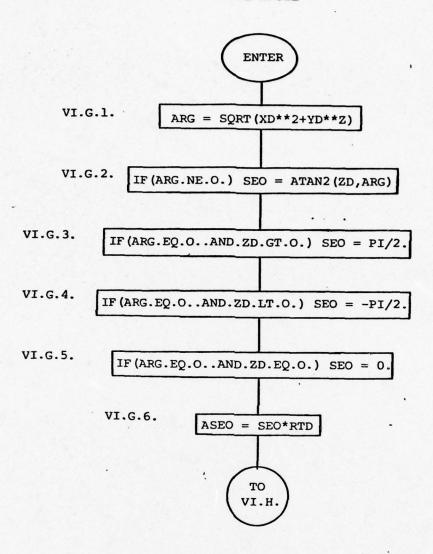
VI.E. CALCULATE PS1 LAUNCH AND THETA LAUNCH



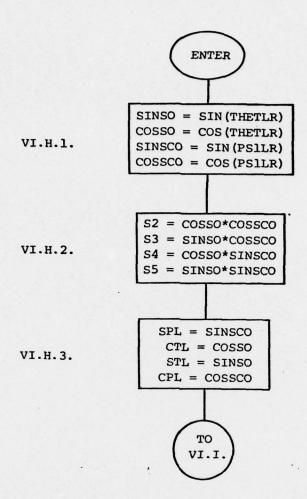
VI.F.
CALCULATE INITIAL X AND Y
COORDINATES OF TARGET
IN EARTH SYSTEM



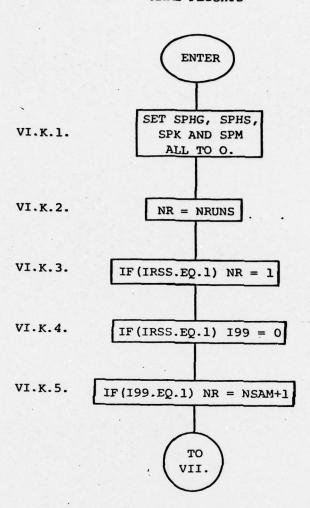
VI.G.
CALCULATE TARGET
DIVE ANGLE



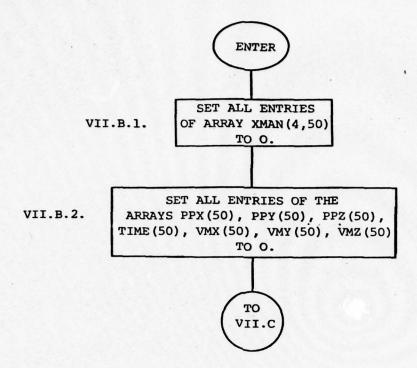
VI.H.
CALCULATE EARTH-TO-LAUNCH
TRANSFORMATION MATRIX



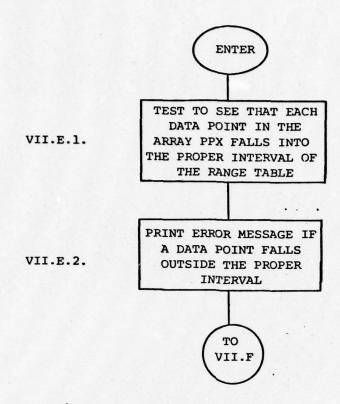
VI.K. PREPARE TO MAKE FLIGHTS



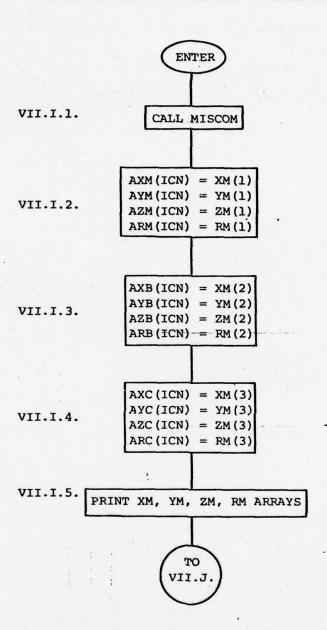
VII.B. CLEAR STORAGE AREAS



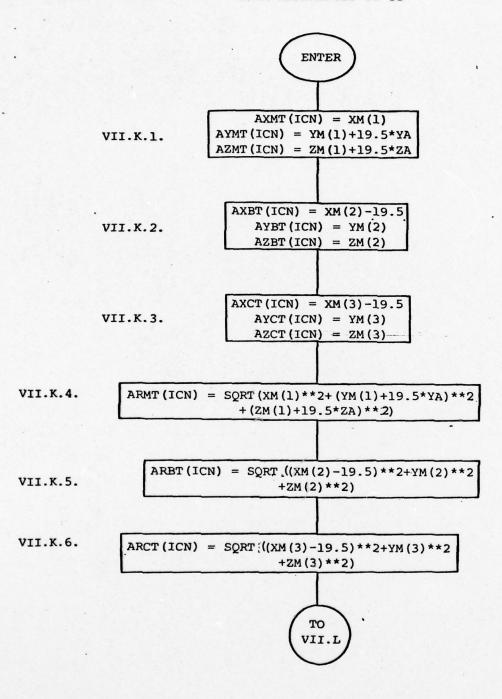
VII.E.
CHECK TIME CRITICAL
DATA COLLECTION



VII.I.
CALCULATE, SAVE AND PRINT MISS
DISTANCE DATA REFERENCED TO TAILPIPE

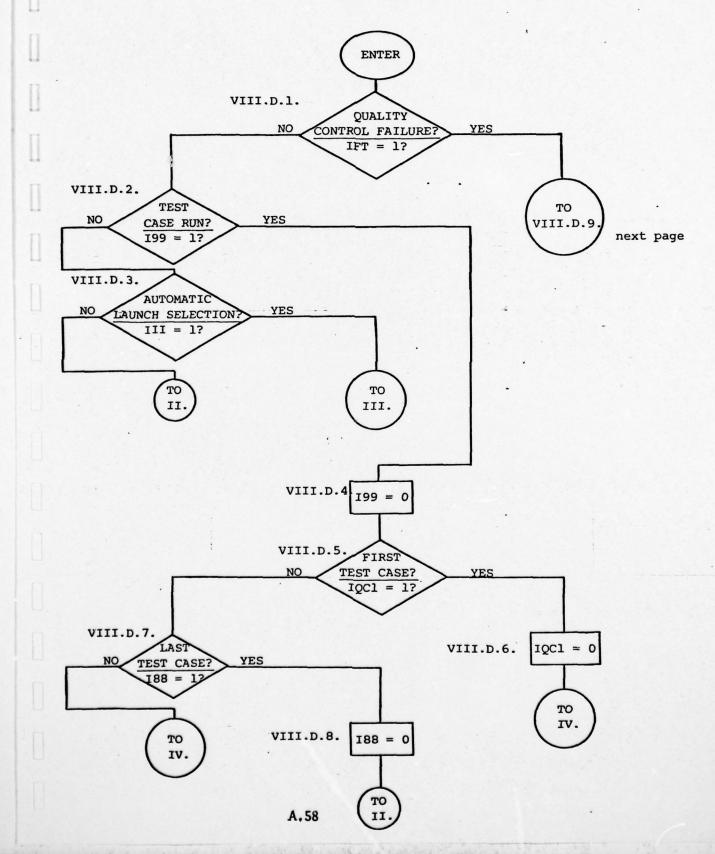


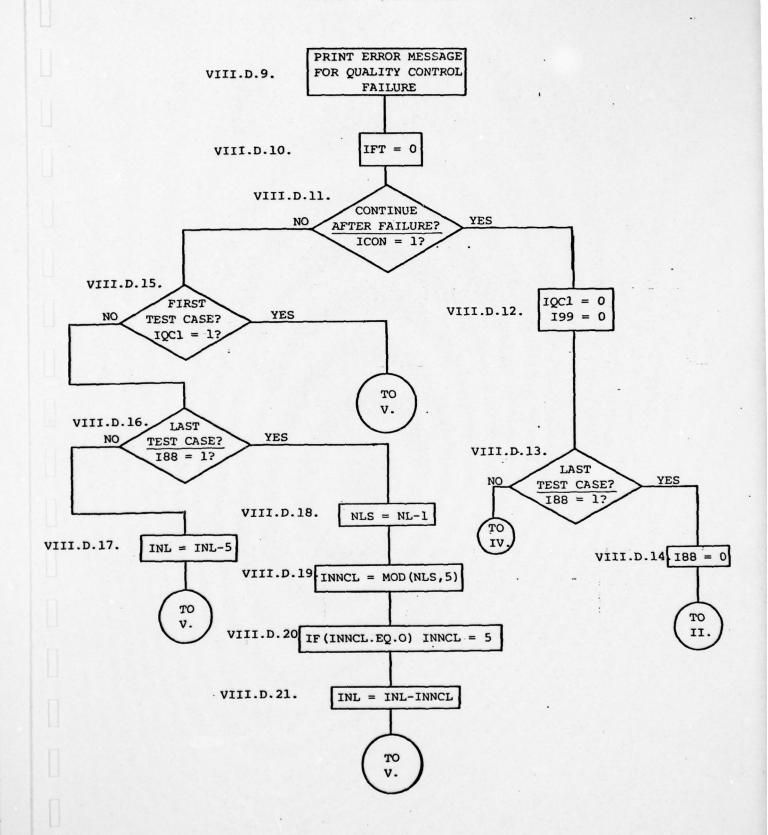
## VII.K. CALCULATE AND SAVE MISS DISTANCE DATA REFERENCED TO CG

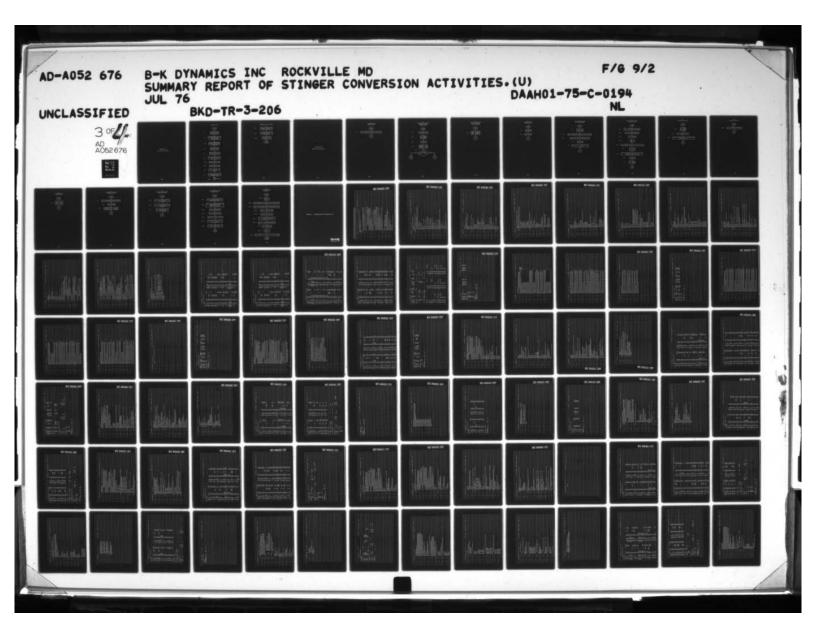


VIII.D.

DECIDE WHERE TO TRANSFER CONTROL
NEXT BASED ON MANUAL OR AUTOMATIC
LAUNCH SELECTION, TEST CASE RUN, QUALITY
CONTROL FAILURE, ETC.

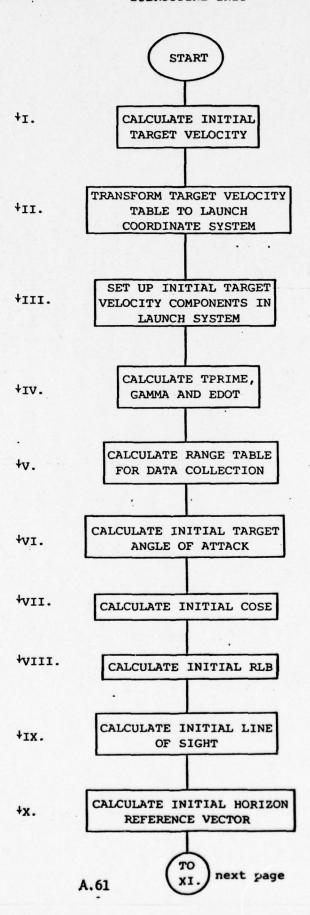


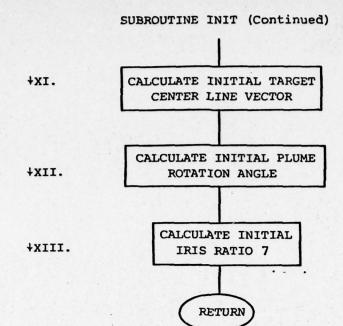




SUBROUTINE INIT

FIRST LEVEL FLOW DIAGRAM

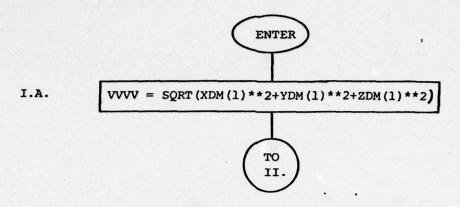




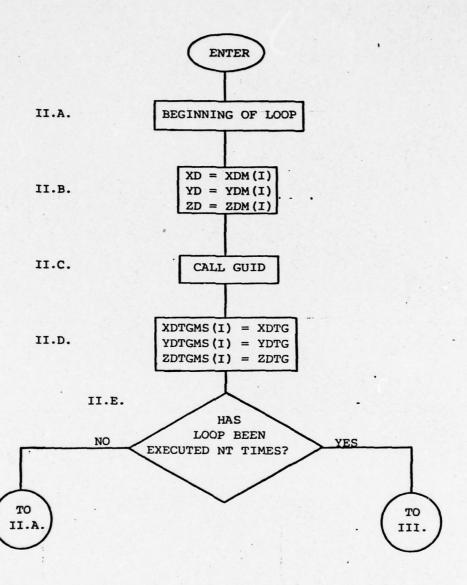
SUBROUTINE INIT

SECOND LEVEL FLOW DIAGRAMS

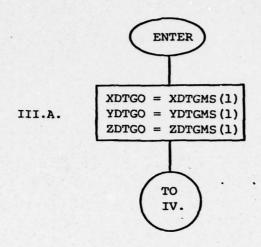
I.
CALCULATE INITIAL
TARGET VELOCITY



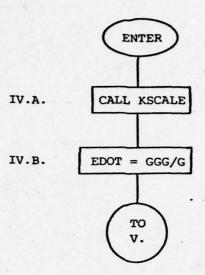
II.
TRANSFORM TARGET VELOCITY
TABLE TO LAUNCH
COORDINATE SYSTEM



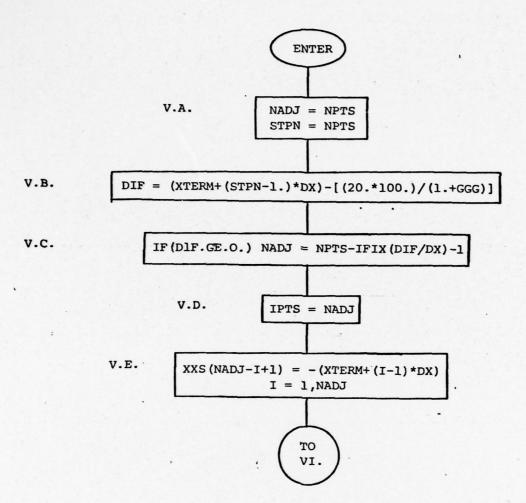
III.
SET UP INITIAL TARGET
VELOCITY COMPONENTS
IN LAUNCH SYSTEM



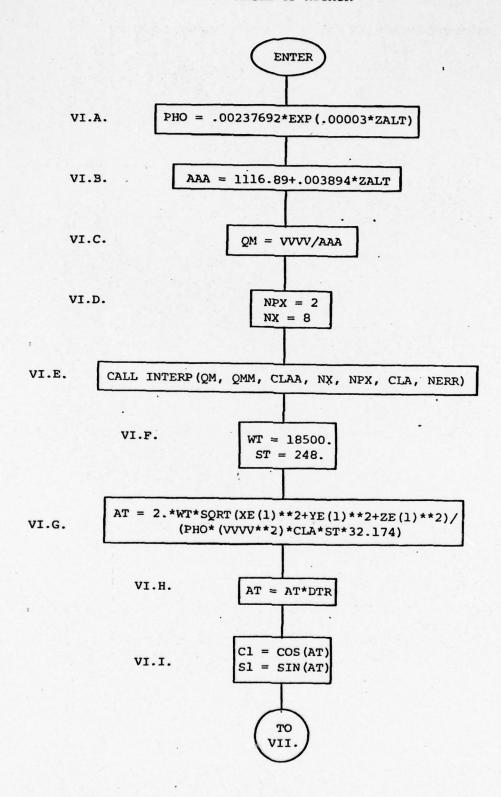
IV.
CALCULATE TPRIME,
GAMMA AND EDOT



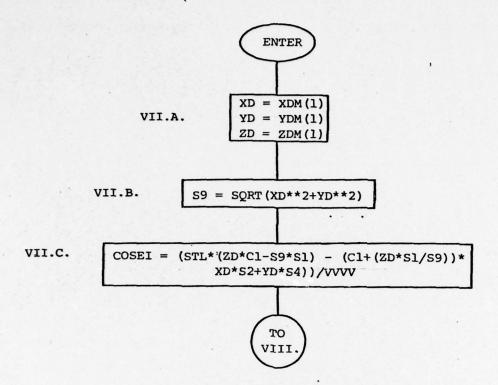
V.
CALCULATE RANGE TABLE
FOR DATA COLLECTION



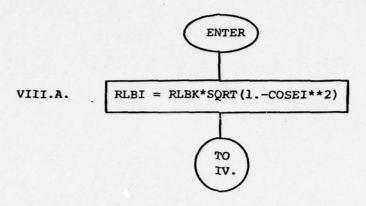
VI.
CALCULATE INITIAL TARGET
ANGLE OF ATTACK



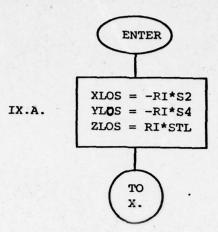
VII. CALCULATE INITIAL COSE



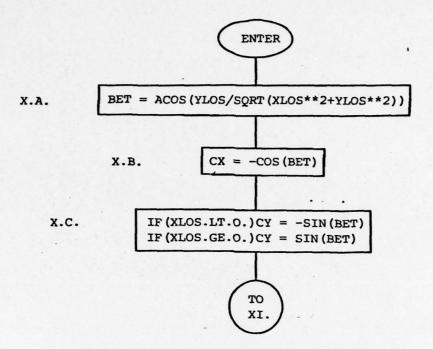
VIII. CALCULATE INITIAL RLB



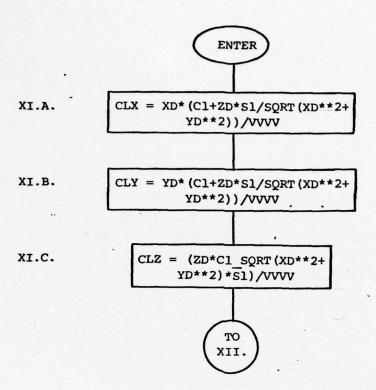
IX.
CALCULATE INITIAL
LINE OF SIGHT



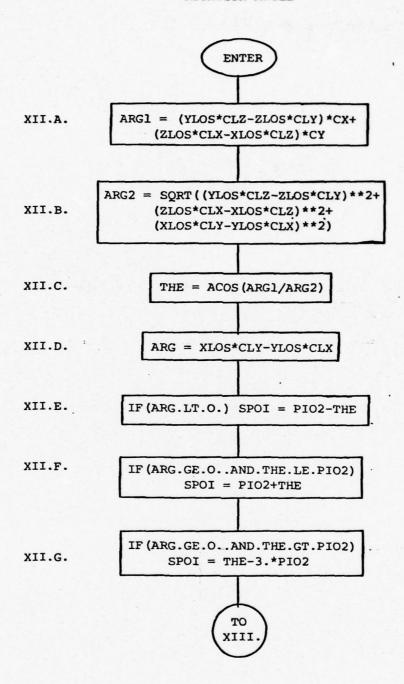
X.
CALCULATE INITIAL HORIZON
REFERENCE VECTOR



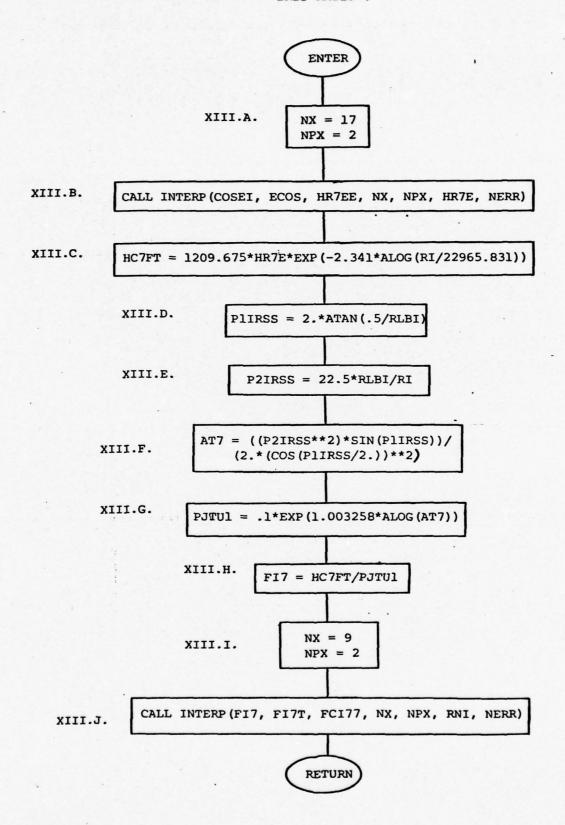
XI.
CALCULATE INITIAL TARGET
CENTER LINE VECTOR



XII.
CALCULATE INITIAL PLUME
ROTATION ANGLE



XIII. CALCULATE INITIAL IRIS RATIO 7



APPENDIX B. STRUCTURED MAIN AND SUBROUTINE INIT



	PA52 1											E	E	ST		A\	/ A	IL  -	A	B				)P	Y		
***************************************	PROGRAM MAIN 19774 OPT=1 FROGRAM MAIN(INPUT, OUTPUT, HFILE, TAPE5=INPUT, TAPE6=OUTPUT)	COMMENT. HYSRID SIMULATION CONTROL	COMMENT. ************************************	NAUNS IS THE NUMBER OF RUNS PER FLIGHT	BETWEEN COLLECTED DATA  DATA POINTS COLLECTED:	*SAM.EUOT.THETAL.RN.	0)*PPY(53); PPZ(50);TIME(50);THAS(30);XD S(30);ZDIGMS(30);XMAN(4,50);XMISS(7);NT	*.x00.x00.200.0x6.0Y3.250383.54.55.x004(30).704(30).204(30).	**************************************	EAL;TMA(30);XTA,YTA;ZTA;SCALEV,QMM(1),VM2(50)	**ECOS(177;HR7EE117);FI7T(9);FC177(9) C3*H031 /C0H8/X0,Y0,Z0,X016,Y016,Z016,X0EF,Y0EF,Z0EF,Z2Z	EM (30,45) , YDEM (30,45) , ZDEM (30,4	* ZPRIME, TIMES (50), ITRAJ (60), ITAU (60), III, NADJ	-FZ4-FX3-FY3-FZ8-FXC-FYC-FZG-AT-VT	*34,426,416,414,42,43,44,44,44,44,44,414,414,414,414,414,4	S1P5 . A2P6 , A1P5 . XTERM . KKK . AS. 3	SUMMON ZANG STANG GOSSO. STANG GOSSO	PHG, SPHS, SPM	PPYS (50)	Z	UHENSION ZIEO(62), 19(30)	1	(62) , XMT (3), YMT (3) , ZMT (3) , RMT (	*AZUT(20), ARBT(20), AXCT(20), AZHT(20), ARM F(20), ARGT(20), ARGT	COMMON/*:DCI/2,	*IADIN: IADINS: IADINS, IADINS	COMMON/*IDIS2/IIN
	4		9		B.		15			12		25			30		39			7		45			23		5.3

## BEST AVAILABLE COPY

FINH 4.2+75348 01/12/76 14.30.11. PAGE 2	, DADUT9, DADUT10, DAGUT11	SPECIFIC FOR LAUNCH AT WSMR 2957795,0.01745323/	.271/V0.71234567691d1112 .1516171819202122232425.,26./ .2516171819202122232425.,26./	\$2	IS1.NSAM, ICON, INL	SI,NSAH,ICON,INL	CLMS(I), CLS1(I), CLS2(I) CLMS(I), CLS1(I), CLS2(I)	•46•45•36	24.05.06 • H4. H5.46	14. ND. H6		10 15		NPIS-UX-XIERH NPIS-DX-XIERH	DNS. NL IS NOMBER OF LADNCH SEIS.			PRINT 833 LOADED LAUNCH CONDITION SETS.
PROSRAH HAIN 74/74 OPT=1	*DAGUTZ, DAGUTS, DAGUTS, DAGUTS, DAGUTS, JAH, OFF	C*** NEXT CALU IS TAPE SPEC C*** NEXT CALU IS 1499.7 OATA 2100.012/57.2957	30ATA(TM(T), 1=1,27)/0.  13.14.15.15.16  50ALE = 102,375	SCALET = 200 * 102.375 SCALEV=20.*1.02.375 SCALEZ=6.*1.02.375	10 20NTINUE READ(5,2000) IS1,NSAM PRINT 2012	PRINT 800 PRINT 2602, IST,NSAM, PRINT 300	READ (5,620) CLHS(I), READ (5,620) CLHS(I), PRINT 2005, CLHS(I), C	11 CO.TINUE	REINT 2006, QI.QZ.Q3. REAU (5,621) HI,MZ.W3	PAINT 2007, M1, M2, H3, M4, W5, W6	PRINT 800 PRINT 2010, NRUNS	IF (38.235.LE.20) G3	NRUNS = 20 NRUNS = 20	PRINT 2038, NPIS.DX.XIERH	KEAD IN LAUNCH CONDITY READ (5,902) NL	PRINI 500 92.01 2011, NL 1F (NL LE: 61) '50 TO 30" PAINT 623, NL	30 TO 3	FILISTANT SENT 83  IF (ISLAC.1) PRINT 83  MLL=ML+1

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/2=IN	1451-10	THE STATE OF THE TOTAL TANDEN TO THE TANDEN	61 INTELLIFE SECTION OF ENOUGH CONTENTS.	 G INDEX FOR AUTO TEST CASE CHECK	63 199=0	U77=FLOAT(INL)	 I77=IFIx(U73)	U79=FL041 (177)		C TEST FOR EVERY FIFTH LAUNCH SET	IF (USU.LI.U.VI.)	C TEST FOR FIRST LAUNCH SET	IF(INL.co.1) 199=1		FOR OTHER RUNS	188=3	C TEST FOR LAST TEST CASE CHECK		C TEST CASE CHECK REQUIRED AFTER LAST LAUNCH SET	IF (INE.GT.NL) 199=1	IF(199.Eq.1) 60 T0 62	- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	KAKKASE	PALN 1916, KA	11 = 1	111076	1717 OT 1717 O	TALLE FOR THE TALL	10000	42 READ(5,200) III, IRSS, KA, IIT, NOGO	PRINT-000-	PRINT 2003, III.IRSS.KA.III.NOGO	\$E.01(5:2001) 143	P41N1 950	IF(III.=2.1) 60 f0 41	5 J CONTINUE	5 PRINT 860	C*** LAUNCH CONDITIONS HAVE BEEN SELECTED.	15.1.05	6. CONTINUE	PATH 325 THIRD	TAU=3.0
	125	757			130				135					140					145					150				15.					180				165				170	

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PAGE

01/12//6 14.30.11.

FTNH 4.2+75348

I=140 9//9/

PROCKAN MAIN

113

120

PRINT 800

00 40 1=1,NLC

REA0 (5,904) ZTEO(I),ASC(I),RR(I)

ZIE = -ZTEOUL)

IF(IS1.NE.1) PRINT 835, I,ZIE,ASC(I),RR(I)

40 CONTNUE

3 CONTINUE

9 CONTINUE

N I=27

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TATTA   OPT=1   FTMH 4.2775348																		,												
INDEX FOR TEST CASE DATA CARD OF LAJNCH CONDITIONS	01/12/76 14.30.11.	•																											•	
INDEX FOR TEST CASE DATA CARD OF L  KA=NU+1:  INDEX FOR TEST CASE TARGET NAE-NUE  INTESS  1	FTNH 4.2+75348	AUNCH CONDITIONS	av.	= 39 FOR TEST CASE MANEUVER	LOCITY-TIME HANEJVER TABLE.										RATION TABLE			•								55	53 54			
	14774		INDEX FOR TEST CASE TARGET MANEUVER	* NEXT CARD IS TAPE SPECIFIC FOR ITE	* ADJUST FOR TAU AND SCALE TARGET VE	JO 25 I = NTAU,NT	I - NTAU	THAS(K)=THA(K)	XDM(K)=XUEH(I+ITT) YDM(K)=YDEH(I+ITT)	ZOM(K) = ZOEM(I)	1	THA(K)=FLOAT(K)=I.	YORKX) = YOEM (NT.ITT)	20% (K) = 20EM (NT, ITT)		XE(1)=XUM(2)=XUM(1) YE(1)=YUM(2)=YUM(1)	ZE(I)=ZDM(2)=ZDM(1)=3Z=174 DO 31 I=2,NI	TV=I-1 xE(I)=x04(I)-x0M(IV)	1	Z=ZTEU1K#5E7 ZZZ=Z+ZA30VE	ZALT=ZZZ AS=ASCKASE)		YD≈YDM(I) ZD≈ZUM(I)	VVVV=SQRI(XU*XD+YD+YD+ZD*ZD)	IF IVVVV.LT.33	60 70		XC=1 SC=6.9	1F(ZO.52.0.0) GO TO 52	IF (ZU-CT.0.0) SE0=-90.*0TR.

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1111=14-045 H111=14-045 H111=14-045 IF(1785-64-1)	275	**************************************
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IF (1853, EQ.4) IF (1853, EQ.2) IF (199, EQ.1) UP (199, EQ.1) OD 150, II, III		
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	5 14.30.11. PAGE 5	* ·					
	FTNH 4.2+75348 01/12/76			1,5P3 DXG, DYG F2 ARG	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		. 01
				01.X0760.Y0760.X0160.RN.RLB.SP0 01.X0760.Y0760.X00.Y00.200.0X6.DY6 NP. 2C0MP.6.666.X00.Y00.200.0X6.DY6 NS.\$55.RLBK.SCALEP.C0SE.FI.F2 63.XC.YC.2C6.SI.RRS.SY TL.YCC.XI.RT.YII.ZALT.CLA.PHO.AR6	N POIN	0 TO 110 S(J)*PPYS(J)*PPZS(J)*TIMES(J) THE CRITICAL DATA COLLECTION	ILL.AND.XCOLL.LT.XCOOX) GO TO 330
	PRJGRAH HAIN 74/74 OPT=1	C*** ZERO STORAGES AREA  50 85 JE 1450  50 85 K 1145  50 85 K 1145  50 65 K 1145  65 CONTHUE	PPY(J) = 0.0 PPY(J) = 0.0 PPZ(J) = 0.0 PPZ(J) = 0.0 VHX(J) = 0.0	LEVEL=-7 CALL FLIGHT PALNT 20.12 IF (IS1.2.1.1) GO TO 91 PRINT 3945.K1GAR-EUOT PRINT 999.XCOMP.YCOMP	PRINT 996, LEVEL, IPPT PRINT 991, TAP, XLDS. PRINT 991, CI, AS, SEO 91 CONTINUE NADJ C*** SALE AND MRITE THE LEGISLATIP PRINT IF (INS. CA.)	95 IF (1945; EQ. 0) 10 Jan. 440J DO 110 Jan. 440J PPYS(J) = PPY(J) PPYS(J) = PPY(J) PPYS(J) = PPY(J) I IMES(J) = IME(J) VHYS(J) = VHY(J) VHYS(J) = VH	GO TO 329
	2 8308	293	333	3.15	313	330	

330 CONTINUE   XCOMPETATION   XCOM
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	PRUGRAH HAIN 74/74 OPT=1 FTNH 4.2+75348 01/12/76 14.30.11. PAGE
00,	AZBI(ICN)=ZMI(Z)
	AYCT(ICN) = AHT(3)
405	TET CATEGORY CANTON ** 2+747 (K) ** 2+247 (K) (K) ** 2+247 (K)
	ARHT (IGU) ERHT (1)
1	
4 10	PRINT 815
	SRINT 814, XMT(K), YMT(K), ZMT(K), RMT(K)
415	CALL LETH C*** GO BACK FOR THE NEXT FLIGHT
	CAME ACTION DITCHTS HAVE BEEN COMPLETED. CALCILLATE MEAN AND STO DEV
420	10 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
	CALL PEAN (AXM,AYM,AZM,ARM,NRUNS,XM(1),YM(1),ZM(1),RM(1))
	CALL HEAH (AXB.AYB.AZB.ARB.NRUNS.XY(2),YH(2),ZH(2),RH(2))
624	
	C*** GJ DAGK FUR THE NEXT SET OF FLIGHT BONDITIONS  IF(VVVV-LI,338.8) GO TO 197
02.7	PRINT 860
2	-
-	IF(199.EQ.1) IPLANE = 1 CALL MEAN (AXHI:AXHI:AXHI:AXHI:AXHI:AXHI(1).VHI(1).CAL(1).CAL(1).
100	PAINT 831 TE (148, Ed.1) TECANE . 2
	CALL MEAN (AXBT, AYBT, AZBT, ARBT, NRUNS, XHT(2), YHT(2), ZHT(2), RHT(2))
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055	GAEL HEAR (AXCT, AYCT, AZCT, ARCT, NRUNS, XHT(3), YHT(3), ZHT(3), RHT(3)) AARUNS-SPK/NR
	ABSUM=SPHS/NR
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445	
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450	530 PRINT 001
	IFT=3 IF(ICON+20+1) GO TO 635
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627 IE(1285.NE-1) GO TO 50 60 TO 633 60 TO 623 199 -0 TO 50 200 CONTINUE 1 11303.EE.2.1) GO TO 50 200 CONTINUE 200 CONTINUE 1 1303.EE.2.1) GO TO 30 201 TO 50 202 CONTINUE 20 FORMAT(1104.37H RANDOM NUMB 332 FORMAT(1104.37H TARGET IS ASSUM 334 FORMAT(1104.37H TARGET IS ASSUM 335 FORMAT(104.37H TARGET IS ASSUM 341 FORMAT(104.49H SELEST THE SUBL 35 FORMAT(104.49H SELEST THE SUBL 362 FORMAT(104.49H SELEST THE SUBL 363 FORMAT(104.49H SELEST THE SUBL 364 FORMAT(104.49H SELEST THE SUBL 365 FORMAT(104.49H SELEST THE SUBL 365 FORMAT(104.49H TEST CASE THE SUBLEST		
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193 537 193-0  15 (136.53.1) GO TO 50  193 637 170-50  200 CONTINUE  15 (130.54.2) GO TO 300  17 (100.10.54.1) TARANDOM NUMB  18 7 FORMAT (110.54.1) TARANDOM NUMB  19 7 FORMAT (110.54.1) TARGET IS ASSUM  32 FORMAT (110.54.1) TARGET IS ASSUM  19 7 FORMAT (110.54.1) TARGET IS ASSUM  19 7 FORMAT (110.54.1) TARGET IS ASSUM  10 500 FORMAT (110.54.1) TARGET IS AND ASSUM  10 500 FORMAT (10.54.1) TARGET IS AND ASSUM  10 500 FORMAT (10.50.1) TARGET IS AND ASSUM  10 500 FORMAT (10.54.1) TARGET IS AND ASSUM  10 5	67.0	
193 193-0  50 10 50.3  50 10 50.3  50 10 50.2  50 10 30.0  50 10 3 50.1  193 50 10 30.0  77 FURMAT (110.10x,17H RANDOM NUMB 33.2 FORMAT (110x,37H TARGET IS ASSUM 33.2 FORMAT (10x,51H TEM 2NITICAL DATA 40.0  193 70 70 70 70 70 70 70 70 70 70 70 70 70		
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200 CONTINUE 200 CONTINUE 201 PRINT 440 77 FURMATICIDA, 127 H RANDOM NUMB 102 FORMATICIDA, 127 H RANDOM NUMB 332 FORMATICIDA, 37 H TARGET IS ASSUM 332 FORMATICIDA, 49 H TERES STAFTIN 605 FORMATICIDA, 49 H TERES STAFT) 10x, 12 H PANJAL H OSE 605 FORMATICIDA, 49 H TERES SHIP 627 FORMATICIDA, 49 H TERES SHIP 628 FORMATICIDA, 49 H DESIRED TO COMP 628 FORMATICIDA, 49 H DESIRED TO COMP 629 FORMATICIDA, 49 H DESIRED TO COMP 620 FORMATICIDA, 49 H DESIRED TO COMP 621 FORMATICIDA, 49 H DESIRED TO COMP 622 FORMATICIDA, 50 H I H TH SENSE SHIP 623 FORMATICIDA, 50 H I FINIS IS A MISSUM SAME SEED TO COMP 640 FORMATICIDA, 16 H TEST CASE TO COMP 650 FORMATICIDA, 16 H TEST CASE TO COMP 650 FORMATICIDA, 16 H TEST CASE TO COMP 651 FORMATICIDA, 16 H TEST CASE TO COMP 652 FORMATICIDA, 16 H TEST CASE TO COMP 653 FORMATICIDA, 16 H TEST CASE TO COMP 654 FORMATICIDA, 16 H TEST CASE TO COMP 655 FORMATICIDA, 16 H TEST CASE TO COMP 656 FORMATICIDA, 16 H TEST CASE TO COMP 657 FORMATICIDA, 16 H TEST CASE TO COMP 657 FORMATICIDA, 16 H TEST CASE TO COMP 658 FORMATICIDA, 16 H TEST CASE TO COMP 659 FORMATICIDA, 16 H TEST CASE TO COMP 650 FORMATICIDA, 16 H TEST CASE TO COMP 650 FORMATICIDA, 16 H TEST CASE TO COMP 650 FORMATICIDA, 16 H TEST CASE TO COMP 651 FORMATICIDA, 16 H TEST CASE TO COMP 652 FORMATICIDA, 16 H TEST CASE TO COMP 653 FORMATICIDA, 16 H TEST CASE TO COMP 654 FORMATICIDA, 16 H TEST CASE TO COMP 655 FORMATICIDA, 16 H TEST CASE TO COMP 657 FORMATICIDA, 16 H TEST CASE TO COMP 658 FORMATICIDA, 16 H TEST CASE TO COMP 659 FORMATICIDA, 16 H TEST CASE TO COMP 650 FORMATICIDA, 16		139=0
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15   100   10   10   10   10   10   10		
1 F (13053-Eq.0) 50 10 300  60 10 3  7 F CRMAT(1140,10x,174 RANDOM NUMB  132 F CRMAT(110x,374 TARGET IS ASSUM  332 F CRMAT(10x,514 ITME 2RITICAL DATA  503 F CRMAT(10x,514 ITME 2RITICAL DATA  10x,514 ITME 2RITICAL  110x,514 ITME 2RITICAL  111 ITME		
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77 FORMAT (140-10x,174 RANDOM NUMB  33. FORMAT (10x,374 FARCET IS ASSUM  33. FORMAT (10x,514 FARCET IS ASSUM  33. FORMAT (10x,514 FAUDMATICAL DATA  464 DESIRED STARTIN  10x,524 IF MANJAL HODE  10x,524 IF MANJAL HODE  10x,524 IF MANJAL HODE  10x,424 H FORMAT (10x,494 FOR SERVIT)  10x,124 PUSH START,)  62.0 FORMAT (10x,494 SELECT THE SUM  10x,124 PUSH START,)  62.2 FORMAT (10x,494 SELECT THE SUM  10x,124 PUSH START,)  62.2 FORMAT (10x,494 SELECT THE SUM  10x,124 PUSH START,)  62.2 FORMAT (10x,494 SELECT THE SUM  10x,124 PUSH START,)  62.2 FORMAT (10x,494 SELECT THE SUM  10x,124 PUSH START,)  11x,134 SELECT 1  11x,134 FELECT 2  11x,134 FELECT 3  11x,134 FELECT 3  11x,134 FELECT 3  11x,144 FETT START START  11x,144 FETT START  11x,1	4.80	PRINT 840
193 FDRMAT(100.474   F6.4, )  32 FORMAT(10x.474   FACET IS ASSUM 32 FORMAT(10x.474   INE STITICAL DATA 500 FORMAT(10x.514   IT AUTOMATIC W 404 BOSIRED STARTIN 10x.524   FMAJAL MODE 505 FORMAT(10x.494   F6.7 GOPPLET PRI 10x.494   F6.7 GOP		FURNATITHO, 10x, 17H RANDOM NUMBER IS, E15.8)
# 33.8.8  # 33.8 FORMAT(10.4.37H TARGET IS ASSUN 33.2 FORMAT(10.4.37H TE AUTOMATIC NOT SET IS ASSUN 33.2 FORMAT(10.4.97H TE AUTOMATIC NOT SET IS ASSUN 33.2 FORMAT(10.4.49H FEF 58.56 OUT BE LESSENTIC NOT SET IS ASSUN 34.5 FORMAT(10.4.49H FEF 58.56 OUT BE LESSENTIC NOT SET IS ASSUN 35.5 FORMAT(10.4.4) FOR SET IS ASSUN 35.5 FORMAT(10.4.4) FOR SET IS ASSUN 35.5 FORMAT(10.4.4) FOR SET IN SENSE SHITC NOT SET IS ASSUN 35.5 FORMAT(10.4.4) FOR SIRED-TO CONT AUTOMATIC HOS SET IS AND SET IS A SE		#023447 (1,40;84 #9 F6:4;3X;8H #9F6:4;3X;8H
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### 10 # 10 # 10 # 10 # 10 # 10 # 10 #	485	FURMAI (39H IIME SKITICAL DATA COLLECTION FAILURE.)
404 DESIRED STARIES  10x,52H IS MANJAL MODE  10x,52H IS MANJAL MODE  10x,52H FEGF 5ASE OUT BE LEOST THE SENSE SHITCHES.  10x,54H IF COMPLEE PRI 20x,54H IF COMPLEE PRI 20x,54H IF COMPLEE PRI 20x,54H IF COMPLEE PRI 20x,54H IF SENSE SHITCHES.  621 FORMAT(10x,49H SELECT THE QUAL 20x,49H SELECT THE QUAL 20x,49H SENSE SHITCHES. 21H MITH SENSE SHITCHES. 21H MITH SENSE SHITCHES. 22F FORMAT(10x,49H SELECT THE QUAL 20x,49H DESIRED-TO GONI 49H DESIRED-TO GONI		FORMATICIOX, SIH IF AUTOMATIC MODE SELECTION IS PLANNED, SELECT
## 10x,52H FEA MANAL HODE  ### FEA MANAL HODE  ### FEA FASE OFF EL TONORED  ### FEA FASE OFF EL TONORED  ### 10x,49H IF COMPLETE PRI  ### 10x,51H IF NOLV F SSENT  ### 10x,51H IF NOLV F SSENT  ### 10x,21H PUSH START.)  ### 10x,49H SELEST THE AUAL  ### 10x,49H DESIRED TO CONI  ### 10x,49H FE TEST CASE.  ### 10x,49H IF IT IS NA MILL  #### 10x,49H IF IT IS NA MILL  ### 10x,49H IF IT IS NA MILL  #### 10x,49H IF IT IS NA MILL  ### 10x,49H IT IS NA MILL  #### 10x,49H IT IS NA MILL  ### 10x,49H IT IS NA MILL  #### 10x,49H IT IS NA MILL  #### 10x,49H IT IS NA MILL  ### 10x,49H IT IS NA MILL  #### 10x,49H IT		450H DESTRED STAKILNG LAUNCH SET NUMBER HITH SENSE
10x,12H PUSH START, 1 06.5 FORMAT(124) FEF 38.56 OUT GET POSH 10x,12H PUSH START, 1 10x,12H DUSH START, 1 10x,12H DUSH START, 1 10x,12H DUSH START, 1 6.21 FORMAT(1516,4) 6.22 FORMAT(10x,49H SELECT THE QUAL 10x,49H THEN SELECT THE SE		AND SALICHESS.
10X.12H PUSH STATE)  6625 FORMAT(10X.49H FORTS)  10X.51H FEEF 5ASE 0UT BETLINITS //)  10X.51H IF ONLY ESSENTIAL PRINTOUT IS DESIRED, SELECT 1  10X.12H PUSH STATE)  622 FORMAT(10X.49H 'SELECT THE QUALITY. CONTROL TEST CASE SAMPLE  623 FORMAT(10X.49H 'SELECT THE QUALITY. CONTROL TEST CASE SAMPLE  10X.49H SELECT THE QUALITY. CONTROL TEST CASE SAMPLE  624 FORMAT(10X.49H 'SELECT THE QUALITY. CONTROL TEST CASE SAMPLE  10X.49H SELECT THE QUALITY. CONTROL TEST CASE SAMPLE  625 FORMAT(10X.49H 'SELECT THE QUALITY CONTROL TEST CASE SAMPLE  10X.49H THEN SELECT THIS SENSE SAMPTON SELECT  113X.49H THEN SELECT 2 .)  540 FORMAT(10X.45H TEST CASE SAMTCHES.)  113X.45H TEST CASE SAMTCHES.		ייייי דר האויטאר הטטב
### ##################################	6.37	12H PUSH S
665 FÖRHAT(1)X,49H IF COMPLETE PRINTOUT IS DESIRED, SELECT 1 10x,51H IF SENSE SHITCHES., 10x,51H IF SENSE SHITCHES., 10x,12H PUSH START.) 621 FORMAT(157,49H 'SELEST THE QUALITY CONTROL TEST CASE SAMPLE 110x,49H 'SELEST THE QUALITY CONTROL TEST CASE SAMPLE 110x,49H 'SELEST THE QUALITY CONTROL TEST CASE SAMPLE 110x,49H 'SELEST HUST BE IN RANGE 2 THROUGH 11x) 623 FORMAT(10x,50H IF AUTOMATIC MODE SELECTION IS PLANNED, AND 49H DESIRED TO CONTINUE IF A QUALITY CONTROL FAY AND CONTROL OF A QUALITY CONTROL FAY AND THEN SELECT 1 WITH SENSE SHITCHES. OTHERN 11 SENSE SHITCHES., AND THIS IS A MICOMATOM SELECT 2 .) 540 FORMAT(10x,16H IF IT IS NOT, SELECT 2 HITH SENSE SHITCHES.)		FE64 3AS
104,514 IF ONLY ESSENTIAL PRINTOUT IS DESIRED, SELECTOR		49H IF COMPLETE PRINTOUT IS JESIRED. SELECT 1
# 10X,51H IF ONLY ESSENTIAL PRINTOUT IS DESIRED, SELECTOR TO 2 2 JHHTH 'SENSE'SHITCHES.'  10X,12H PUSH START.)  621 FORMAT(156.3)  621 FORMAT(10X,49H SELECT THE QUALITY.CONTROL TEST CASE-SAMPLE SLY FORMAT(10X,49H SELECT THE QUALITY.CONTROL TEST CASE-SAMPLE SLY FORMAT(10X,50H IF AUTOMATIC MODE SELECTION IS PLANNED, AND 49H DESIRED TO CONTINUE IF A QUALITY CONTROL FAX A HOCKNES.'  10X,49H HEN SELECT 1 HITH SENSE SHITCHES. OTHERN IS SELECT 2 SHITCHES. THE SELECT 2 SHITCHES.'  525 FORMAT(10X,16H TEST CASE://)  526 FORMAT(10X,16H TEST CASE://)  10X,44H IF IT IS NOT, SELECT 2 HITH SENSE SHITCHES.'		16H SENS
10x,12H PUSH START.)  621 FORMAT(15F6.3)  621 FORMAT(1010.4)  622 FORMAT(1010.4)  10x,49H SELEST THE QUALITY. CONTROL TEST CASE SAMPLE  2.1 MITH SENSE SWITCHES.  10x,43H SAMPLE STZE MUST BE IN PRINGE Z THROUGH 11)  623 FORMAT(10x,50H IF AUTOHATIC HODE SELECTION IS PLANNED. AND 49H DESIRED TO CONTINUE IF A QUALITY CONTROL FAIL 10x,48H HEN SELECT 1 MITH SENSE SMITCHES. OTHERN 13H SELECT 2.)  625 FORMAT(10x,16H TEST CASE ://)  640 FORMAT(10x,45H IF ITIS IS A MICOH 470R1J/IRSS RUN, SELECT 2.)  10x,44H IF ITIS NOT, SELECT 2. HITH SENSE SMITCHES.	564	SIH IF ONLY ESSENTIAL PRINTOUT IS DESIRED, SELECT
620 FORMATIGES.3) 621 FORMATIGES.3) 622 FORMATIGES.3) 623 FORMATIGO.49H SELECT THE QUALITY.CONTROL TEST CASE SAMPLE 21H MITH SENSE SHITCHES.4  107,43H SAMPLE SIZE HUST BE IN RANGE 2 THROUGH II.) 623 FORMATIGO.5,50H IF AUTOMATIC MODE SELECTION IS PLANNED. AUDOMATIC MODE SELECTION IS SAMITCHES. OTHERN SELECTION IN STREET CASE IN THE SENSE SHITCHES.		ZOHNITH SENSE SHITCHES:
621 FORMATION 491 621 FORMATION 491 622 FORMATION 491 SELECT THE DUALITY CONTROL TEST CASE SAMPLE 623 FORMATION 491 FELEST THE DUALITY CONTROL TEST CASE SAMPLE 623 FORMATION 501 IF AUTOMATIC HODE SELECTION IS PLANNED AND 491 DESIRED TO CONTINUE IF A QUALITY CONTROL FAN 623 FORMATION 501 IF AUTOMATIC HODE SELECTION IS PLANNED FOR AND 624 FORMATION 501 IF AUTOMATIC HODE SELECTION IS PLANNED FOR AND 625 FORMATION 501 IF AUTOMATIC HOSE SHITCHES. 640 FORMATION 501 IF IT IS NOT SELECT 2 101 IN SENSE SHITCHES.		
621 FORMATION, 49H-SELEST THE QUALITY-SONTROL-TEST-CASE-SAMPLE- 21H MITH SENSE SWITCHES,/ 21H MITH SENSE SWITCHES,/ 21H MITH SENSE SWITCHES,/ 10X743H SAMPLE-SIZE MUST BE IN RANGE Z THROUGH 11) 623 FORMATION, 50H IF AUTOMATIC MODE SELECTION IS PLANNED, AND 49H-DESIRED TO CONTINUE IF A QUALITY-CONTROL-FAN 40H OF SIRED TO CONTINUE IF A QUALITY-CONTROL-FAN 13H SELEST 2 .) 525 FORMATION, 16H TEST CASE/// 540 FORMATION, 16H TEST CASE/// 13K SELECT 2 .) 13X 44H IF IT IS NOT, SELECT 2 WITH SENSE SWITCHES.		620; FORMAT (3F6.3)
623 FORMAT(100x,49H 'SELECT THE QUALITY' CONTROL TEST CASE SAMPLE 21H NITH SENSE SWITCHES./  107.43H 'SAMPLE SALE HOUTON SHICHES./  107.43H 'SAMPLE STACE HOUS SELECTION IS PLANNED, AND 49H 'DESIRED TO CONTINUE IF A QUALITY CONTROL FAIL A OCCURS./  107.49H 'DESIRED TO CONTINUE IF A QUALITY CONTROL FAIL SHE SELECT 1 WITH SENSE SWITCHES. "OTHERN 13H SELECT 2 ")  13H SELECT 2 ")  540 FORMAT(10x,16H TEST CASE :://)  540 FORMAT(10x,16H TEST CASE :://)  10x,45H IF IT IS NOT, SELECT 2 WITH SENSE SWITCHES./		(4.0
623 FORMAT(10%-50H IE AUTOMATIC MODE SELECTION IS PLANNED, AND 623 FORMAT(10%-50H IE AUTOMATIC MODE SELECTION IS PLANNED, AND 624 FORMAT(10%-50H IE AUTOMATIC MODE SELECTION IS PLANNED, AND 625 FORMAT(10%-40H HEN SELECT I WITH SENSE SWITCHES, OTHERW) 626 FORMAT(10%-16H TEST CASE.://) 627 FORMAT(10%-16H TEST CASE.://) 628 FORMAT(10%-16H TEST CASE.://) 638 ATTOMAT(10%-16H TEST CASE.://) 640 FORMAT(10%-16H TEST CASE.://) 641 FORMAT(10%-16H TEST CASE.://) 652 FORMAT(10%-16H TEST CASE.://) 653 FORMAT(10%-16H TEST CASE.://) 654 FORMAT(10%-16H TEST CASE.://) 655 FORMAT(10%-16H TEST CASE.://) 657 FORMAT(10%-16H TEST CASE.://) 658 FORMAT(10%-16H TEST CASE.://) 659 FORMAT(10%-16H TEST CASE.://) 659 FORMAT(10%-16H TEST CASE.://) 650 FORMAT(10%-16H TEST CASE.://)	200	FORMAT (10X, 49H"
623 FORMAT(10x,45H SAMPLE SIZE MUST BE IN RANGE 2 THROUGH 11.1)  494 -081 FEB - 10 - 494 -081 FEB - 10 - 400 FE		21H HIT
623 FORMAT(10X,50H IF AUTOMATIC MODE SELECTION IS PLANNED, AND 49H DESIRED TO CONTINUE IF A QUALITY CONTROL FA 49H DECURSA, 49H DECURSA, 13H SELECT 1 - MITH SENSE SMITCHES, OTHERN 525 FORMAT(1/10X,16H TEST CASE,,/// 540 FORMAT(10X,45H IF ITIS IS A MICOM 470R1J/IRSS RUN, SELECT 23H IMITH SENSE SMITCHES, 10X,44H IF IT IS NOT, SELECT 2 WITH SENSE SMITCHES,		PASH SAM
49H DESIRED-TO CONTINUE IF A QUALITY-CONTROL-FAI 3H OCCURS,/ 13H SELECT 1 - WITH SENSE SWITCHES, OTHERWI 13H SELECT 2 .) 540 FORWATT(//IOX,16H TEST CASE :/// 540 FORWATT(10X,45H IF INIS IS A MICOM +YBRID/IRSS RUN, SELECT 23H IN INTH SENSE SWITCHES./ 10X,44H IF IT IS NOT, SELECT 2 WITH SENSE SWITCHES.		FORMAT(10x,50H IF AUTOMATIC MODE SELECTION IS PLANNED, AND
640 FORMATC//IOX, 15H 5640 FORMATC//IOX, 15H 5640 FORMATC//IOX, 15H 57H 57H 57H 57H 57H 57H 57H 57H 57H 5		-DESIRED-TO-CONTINUE-IF-A-QUALITY-CONTROL-FA
525 F DRMATC//IOX+16H DS+04 F DRMATC//IOX+16H DS+04 F DRMATCI DX+45H DS+04H DS+	505	3H O
13H S 540 FORMAT(10x,16F 540 FORMAT(10x,43H 1		-48H
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715 FORMATILIX. 2014 A REAGE   RALECTOR		18H THEN PRESS START.)				
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220 FORMATILDX  800 FORMATILDX  100x  802 FORMATILDX  100x		6H IF THIS IS H	IRN SHITCHES OFF			
802 FORMAT (10X- 802 FORMAT (110X- 10X- 802 FORMAT (110X- 10X- 10X- 803 FORMAT (10X- 10X- 10X- 10X- 10X- 10X- 10X- 10X-	200	726 FORHATTIUX, 49H SELECT POINT TAU ON	TARGET TRAJECTORY AT TIME OF			
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## 10X4  ##			TAU=0 WAS SELECTED./			
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305 FORMATION 100	220	TION 159 SHE IS	AS. II IS CHANGED TO CO.			
10X 10X 11 FORMATION, 11 FORMATION, 11 FORMATION, 11 FORMATION, 12 FORMATION, 13 FORMATION, 14 FORMATION, 15 FORMATION, 17 FORMATION, 10 FORMATION, 10 FORMATION, 11 FORMATIO		324				
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### DEGRATION,	1	15H AND PUSH STAR	33- HUNIA 1 KAROA 124 A 3 380			
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11. FORMAT (10X  11. FORMAT (11X  11. FORMAT (1X  11. FORMAT (11X  11. FOR		, 11H FLIGHT				
13 FORMAT (10X   11X   12X   13 FORMAT   12X   13 FORMAT   12X   13 FORMAT   13 FORMAT   14 FORMAT   14 FORMAT   14 FORMAT   14 FORMAT   14 FORMAT   14 FORMAT   15 FORMAT		4 (5x F15.4))		E1		
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935 FORMAT (500)  936 FORMAT (100)  935 FORMAT (110)  935 FORMAT (110)  940 FORMAT (110)  940 FORMAT (110)  940 FORMAT (110)  940 FORMAT (110)  941 FORMAT (110)  942 FORMAT (110)  944 FORMAT (110)  945 FORMAT (110)  945 FORMAT (110)  945 FORMAT (110)  946 FORMAT (110)  947 FORMAT (110)  948 FORMAT (100)  949 FORMAT (100)	-	FORMAT(15X, 23H REFERENCED T	PE)			
930 FORMAT (1HD 635 FORMAT (1HD 835 FORMAT (1HD 835 FORMAT (1DX 17.4 GASSIN 24.4 FT) 902 FORMAT (1DX 904 FORMAT (1TD 907 FORMA	43	FORMAT (5X 15.5X 20H FOR NL	LARGE			
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904 FORMATITION  - 2x - 3H FT)  - 2x - 3H FT)  - 302 FORMATITIS  - 904 FORMATITIS  - 905 FORMATITIS  - 905 FORMATITIS  - 905 FORMATITION  - 905 FORMATITION  - 906 FORMATITION  - 907 FO	-	27H TA	IDITIONS 7/7)			
904 FORMATITIO 905 FORMATITIO 906 FORMATITIO 907 FORMATITION 907 FORMATITION 907 FORMATITION 908 FORMATITION 908 FORMATITION 912 FORMATITION 914 FORMATITION 914 FORMATITION 914 FORMATITION 914 FORMATITION 914 FORMATITION	50		2X 15H TATTAL BANCE SETT 2			1
903 FORMAT(110, 903 FORMAT(110, 904 FORMAT(110, 904 FORMAT(110, 908 FORMAT(110 X, 903 FORMAT(10 X, 903 FORMAT(10 X, 904 FORMA		1)				,
903 FORMAT(IID. 904 FORMAT THO 908 FORMAT THO 908 FORMAT THO 909 FORMAT THO 910 F		FORMAT(15)				
904 FORMAT (1140 907 FORMAT (1140 908 FORMAT (1140 909 FORMAT (1140 912 FORMAT (110x, PTH 2TEO =F1 913 FORMAT (10x, PTH 2TEO =F1 914 FORMAT (10x, PTH 2TEO =F1 914 FORMAT (10x, PTH 2TEO =F1 914 FORMAT (10x, PTH 2TEO =F1 915 FORMAT (10x, PTH	155					
908 FORMATITIX F 908 FORMATITIX F 909 FORMATITIX F 912 FORMATITIOX, 913 FORMATITIOX, 914 FORMATITIOX, 914 FORMATITIOX, 914 FORMATITIOX, 915 FORMATITIOX,		.2)	1			
905 FORMATITY F 905 FORMATION 912 FORMATION #7H ZTED =F1 913 FORMATION 914 FORMATION 914 FORMATION 915 FORMATION		FURNAL LING 4X 35H LINE 15H ZD M		•		
912 FORMAT(10X, 7H ZTEO =F1 313 FOWNINGT(10X, PPH ZTEO) =F1 914 FORMAT(10X, PPH ZTEO) = F1 914 F		10.4, 3(3X F8				
912 FORMATCLOX, 7H ZTEO =F1 913 FOR MATCLOX, 914 FORMATCLOX, 115 FORMATCLOX, 115 FORMATCLOX, 116 FORMATCLOX, 117 FORMATCLOX, 117 FORMATCLOX, 118 FORMATCLOX, 119 FORMATCLOX, 119 FORMATCLOX, 110 FORMATCLOX, 1	200	4.2X 3H YOUT	# ZOJ = F7.4.8H MISS= E10.	33		
913 FOW-HATTLOX- 914 FOW-HATTLOX- 914 FORWATTLOX- 915 FORWATTLOX- 915 FORWATTLOX-		912 FORMAT(10X, 7H XTEO =F16.2, 3H FT,5X,	7H YTCO =F10.2,3H FT.5X,			
914 FORMAT(10X, 1) 15 FORMAT(1		#7H ZTED #FIG.Z.3H FT). 313 FOWHATCLOX.62H VERTICAL TARGET TRAJ	ECTORY. GROSSING ANGLE IS NO			
914 FORMATCLOX, 315 FORMATCLOX	33	* PPLICASLED		- 1		
315 FORMATIOX, 94H PUSH ALL SENSE SHITCHES ON FOR AUTOMATIC TOTAL SOCIAL STATEMENT OF STATEMENT		914 FORMATCIOX, 53H STATIONARY TARGET. 3	ROSSING ANGLE IS NOT APPLICA	BLE		
SAN ECSE MANUAL		I	HES ON FOR AUTOMATIC OPERATION	NO		
			TECTED VIOX 124 DIIGH CTADI			

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01/12/76 14.30.11. 15,5x,14,060 = .15)
206 FORMAT (5x,6HTAU = .F10.5)
2005 FORMAT (5x,6HTAU = .F10.5)
2005 FORMAT (5x,6HTAU = .F10.5)
2005 FORMAT (5x,6HG = .F10.5)
2005 FORMAT (5x,6HG = .F10.5)
2007 FORMAT (5x,6HG = .F10.5)
2007 FORMAT (5x,6HG = .F10.5)
2007 FORMAT (5x,6HG = .F10.5)
2008 FORMAT (5x,6HG = .F10.5)
2009 FORMAT (5x,7HPTS = .F10.5,5X,6HG = .F10.5)
2009 FORMAT (5x,7HPTS = .F10.5,5X,6HG = .F10.5)
2010 FORMAT (5x,7HPTS = .F10.5,5X,6HG = .F10.5)
2010 FORMAT (5x,7HPTS = .F10.5,5X,6HG = .F10.5)
2011 FORMAT (5x,7HPTS = .F10.5,5X,6HG = .F10.5)
2012 FORMAT (5x,7HPTS = .F10.5,5X,6HGS = .F10.5)
2013 FORMAT (5x,7HPTS = .F10.5,5X,6HGS = .F10.5) 2003 FORMAT (5X,6HIII = ,19,5X,7HIRSS = ,15,5X,5HKA = ,15,5X,6HIII = ,1 999 FORMAT(10(1X,E11.4))
2000 FORMAT(B15)
2001 FORMAT(F10.0)
2002 FORMAT(F10.0)
2002 FORMAT(5X,6HISL = 15,5X,7HNSAM = 15,5X,7HICON = 15,5X,6HINL = 1.15) FTNH 4.2475348 917 FORMAT(1,0x,7H TAU = ,IZ)
918 FORMAT(1/1/10x,5H SET ,IZ)
919 FORMAT(1,0x,5HXUO =,F10.4,5X,5HYDO =,F10.4,5X,5HZDO =,F10.4)
996 FORMAT(1,0x,5HXUO =,F10.4,5X,5HYDO =,F10.4,5X,5HZDO =,F10.4) 74774 OPTET PROCRAM MAIN 5 33 165

SYMBOLIC REFERENCE MAP (R=1)	P KG	PROJEM MAIN	14/14	0PT=1			FINH 4.	FTNH 4.2+75348	01/12/76 14.30.11.	PAGE	21
STATE	SYMBOL	REFERENC	MAP (R=1								
									٧.		
19   10   10   10   10   10   10   10	NITE										
March   Marc	<b>=</b>			COMA	10106		REAL				
14399H REAL ARRAY EXTRA 1663 ARG REAL ARRAY ASC REAL ARRAY EXTRA 1663 ARG REAL ARRAY ASC REAL ARRAY EXTRA 1663 ARG REAL ARRAY ASC REAL ARRAY 11133 ARRAY ASC REAL ARRAY 11103 AVCT REAL ARRAY AND REAL ARRAY 11107 AXTT REAL ARRAY AND REAL ARRAY 1100 AXTT REAL ARRAY AND REAL ARRAY 1107 AXTT REAL ARRAY AND REAL ARRAY 1100 AXTT REAL ARRAY AND REAL	1	REAL			10111	1	REAL				
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123		REAL	AKKAY		11063		REAL	ARRAY			
March   Marc	1	REAL	AKKAY		11227	1	REAL	ARRAY			
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NEAR   CONA   State   CONA   A1P1   REAL	1	REAL	ARRAY		11107	-	REAL	ARRAY			
11P0 REAL COMP 104 A1P5 REAL 11P0 REAL COMP 107 A1P4 REAL ARRAY 12P6 B0HZ REAL BRRAY 12P6 B0H	-	REAL		CONA	50	1	KEAL		COMP		
11P6   REAL   COMP   73   A2P1   REAL     A2P2   REAL   COMP   73   A2P3   REAL     A2P4   REAL   COMP   73   A2P3   REAL     A2P4   REAL   COMP   102   00H2   REAL     A2P4   REAL   A2P4   D0   D0   D0   D0     A2P5   REAL   A2P4   D0   D0   D0   D0     A2P5   REAL   D0   D0   D0   D0     A2P6   D0   D0   D0		REAL		4 200	101		REAL		4		
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CONTROL   CONT		NEAL		2 4 5 0 0	10	2000	KEAL				
SPL         REAL         COHA         1441         STL         REAL           CX         REAL         EXTRA         501         CY         REAL           CX         REAL         EXTRA         502162         DAOUTI         REAL           DAOUTI         REAL         502160         DAOUTI         REAL           CGDS         REAL         COHA         TACHA <td< td=""><td>20250</td><td>KFAL</td><td></td><td>AME</td><td></td><td>60350</td><td>PEAL</td><td></td><td>S N A</td><td></td><td>1</td></td<>	20250	KFAL		AME		60350	PEAL		S N A		1
CX         REAL         EXTRA         21         CY         REAL           21         RAL         EXTRA         502160         0A0UT1         REAL           0A0UT2         REAL         502162         0A0UT3         REAL           0A0UT3         REAL         502162         0A0UT3         REAL           0A0UT4         REAL         502162         0A0UT3         REAL           0A0UT5         REAL         502165         0A0UT7         REAL           0A0UT5         REAL         86AL         REAL           0A0T6         STRAL         0A0         8144         0TR         REAL           0A0T6         STRAL         COMA         6144         0TR         REAL           0A0T6         STRAL         COMA         ARAA         COMA         ARAA           0A0T6         STRAL         COMA         ARAA         COMA         ARAA           0A0T6         STRAL         COMA	SPL	REAL		COMA	1441		REAL		AMOU		
21 REAL EXTRA 502160 0A0011 REAL DA00112 REAL DA00112 REAL S02152 DA00111 REAL DA0015 REAL S02162 DA0017 REAL DA0015 REAL S02164 DA0017 REAL DA0015 REAL S02170 DA0017 REAL DA		REAL		EXTRA	12		REAL		EXTRA		-
DADUTION         REAL         502172         DADUTION         REAL           JADUTZ         REAL         502162         DADUT3         REAL           JADUTG         REAL         502165         DADUT3         REAL           JADUTG         REAL         502170         DADUT7         REAL           JADUTG         REAL         502170         DADUT7         REAL           JADUTG         REAL         502170         DADUT7         REAL           JADUTG         REAL         6044         DTR         REAL           JAGATAG         COMA         6044         DTR         REAL           JAGATAG         COMA         2173         FITT         REAL           FXG         REAL				EXTRA	502160		REAL				
UADOJIZ         REAL         502162         DAOUTS         REAL           DAOUTS         REAL         502165         DAOUTS         REAL           DACOTTS         REAL         6144         DTR         REAL           DACOTTS         REAL         634         DTR         REAL           COSTA         1263         DTS         REAL         ARRAY           FCITY         REAL         ARRAY         COMA         2173         FIT         REAL           FCITY         REAL         ARRAY         COMA         2173         FIT         REAL           FCITY         REAL         ARRAY         COMA         2173         FIT         REAL           FXG         REAL         GTARG         1         FYG         REAL	i				502172	1	REAL				
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DADJIS   REAL		REAL			502164		REAL				
DELTA   REAL   ARRAY   COMA   DIA   DIA   DIA     JAC	i	NEAL			202120	1	DEAL				1
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RE				ARRAY				-						ACCAY												A KA A	ARRAY	ARRAY			-		APPAY						-			
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FZC SM	124	9	999	HETEE	INJINI	IADING	IASI NG	IACING	IFT	III.	INTEL	IOSI	151	ITAA	177	141	×	KASE	A.K.	MADU	NO CO	1	NPX	NEUNS	XX	200	PPY	766	24	13	- 35	8	RL3		RRR	SA.	SCALE	30.1.50	1	SED	21.150	2
VARIABLES 10 FZ	1425	1524	1430	2512	100005	100105	20105	504616	25	-030515	10112	10050		10142	10053	1	10054	15001	13022	10333	2001	7	1603	1116	1504	636	191	543	1700	3 3	94	01	10	1	1436	1701	10036	11 11	10 2	2	220	

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17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5   17.5		REAL		COMP	72	S1P3	REAL		COMP		
SEP         REAL         COMP         128 P         REAL           S2P         REAL         COMP         159 SP         REAL           S2P         REAL         ARRAY         REAL         ARRAY           S2P         REAL         ARRAY         REAL         ARRAY           S2P         REAL         ARRAY         REAL         ARRAY           UNY         REAL         ARRAY         COMA         1055 JM         REAL         ARRAY           UNY         REAL         ARRAY         COMA         1055 JM         REAL         ARRAY           UNY         REAL         ARRAY         COMA         120 JM		REAL		d+02	102	3165	REAL		COMP		
SEPTIMES		REAL		GOMP	1264	52	REAL		COMA		1
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S	1	17.20		G.03	185	35 PK	DE A L		D. C.		
The Fight   The		REAL .		CONA	1266	S. P.	REAL		COMA		
TETAL   REAL	1	REAL		CONA	1122	TAHA	REAL	ARRAY	COMA		
THETAL   REAL   ARRAY   COMMA   3251   THE   REAL   ARRAY   COMMA		REAL			107	THE	REAL		EXTRA		
TITES   REAL   ARRAY   HANEDW   1021   THAS   REAL   ARRAY		REAL		COMA	325	TIME	REAL	ARRAY	COMA		
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SEAL		REAL		COMP	53	37	REAL		COMP		
XCOJX         REAL           XCOJX         REAL         ARRAY           YCOJX         REAL         ARRAY           YCOJX <td>•</td> <td>REAL</td> <td></td> <td>COMP</td> <td>55</td> <td>¥6</td> <td>REAL</td> <td></td> <td>COMP</td> <td></td> <td></td>	•	REAL		COMP	55	¥6	REAL		COMP		
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XM. Y REAL ARRAY COYA 11055 XMISS REAL ARRAY  XX REAL ARRAY EXTRA 2 XXS REAL ARRAY  YC REAL COMA 1120 YCOMP REAL  YC REAL COMB 1250 YOUR REAL  YDH REAL ARRAY HANEUV 503 YOTGHS REAL ARRAY  YUNG REAL ARRAY HANEUV 503 YOTGHS REAL ARRAY  YUNG REAL ARRAY HANEUV 503 YOTGHS REAL ARRAY  YUNG REAL ARRAY HANEUV 503 YOTGHS REAL ARRAY  YH COMA 15067 Z REAL ARRAY  YH COMA 10067 Z REAL ARRAY  YH T T	- 1	REAL		EXTRA	0	×	REAL	ARRAY	MISO		
XX		REAL	ARCAY.	CONA	1107	SHISS	REAL	ARRAY	COMP		
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0 DATA (XDE MIL 43) +1 = 1,27 / 0 . 1911.9, 376.8, 548.1,699.6, 825.8, 922.,985.  * 1 U12.3; 1002.9; 957.3; 877.7 765; 1625; 4,531.2; 112.8, 7. 198.7 . 198.8 . 1 96.7 . 198.7 . 1 98.8 . 1 98.7 . 1 98.8 . 1 98.7 . 1 98.8 . 1 98.7 . 1 98.8 . 1 98.7 . 1 98.8 . 1 98.7 . 1 98.8 . 1 98.7 . 1 98.8 . 1 98.7 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8 . 1 98.8	-hu   -nu
**1012.3;1002.957.3;877.;765;1,625;4,453:1,284:1,94:7;96:7;287:284:1,94:7;96:7;284:1,94:7;284:1,94:7;284:1,94:7;284:1,94:7;284:1,94:7;284:1,94:7;284:1,1012.1;1984:2;28.23.3;708.1;286.23.3;708.1;286.7;286.23.3;708.1;286.7;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.1;286.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;708.23.3;7	N   1   1   1   1   1   1   1   1   1
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0.0   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145   145	
0ATA(20EH(1;43):1=1,27)/262.3;275;28.5;220.6;189.7;152.4;106.8;  0ATA(20EH(1;43):1=1,27)/262.3;275;28.5;220.6;189.7;152.4;106.8;  0ATA(20EH(1;43):1=1,27)/262.3;275;28.5;220.6;189.7;152.4;106.8;  0ATA(20EH(1;44):1=1,27)/270.0;  0ATA(20EH(1;44):1=1,27)/292.3;1005;2.1008.8;962.7;869.2;733.;  1011.2;-971.8;-884.5;-775.7;65.9;28.2;-173.4;50.9;272.7;  0ATA(20EH(1;44):1=1,27)/346.6;128.2;-96.6;-316.5;-572.9;74;-375.1;  1011.2;-971.8;-884.5;-753.7;-974.5;593.6;-998.4;10.1;-1976.;891.9;  1011.2;-971.8;-884.5;-773.8;-872.;-774.5;59.572.7;  1011.2;-971.8;-884.5;-773.7;-743.5;-95.6;-998.4;10.1;-1976.;891.9;  1011.8;-971.8;-884.5;-777.3;826.8;935.6;998.4;10.1;-1976.;891.9;  1011.8;-971.8;-884.5;-777.3;826.8;935.6;998.4;10.1;-1976.;891.9;  1011.8;-971.8;-884.5;-777.3;826.8;935.6;998.4;10.1;-1976.;891.9;  1011.8;-971.8;-884.5;-777.3;826.8;935.6;998.4;10.1;-1976.;891.9;  1011.8;-971.8;-884.5;-777.3;826.8;935.6;998.4;10.1;-1976.;891.9;  1011.8;-971.8;-884.6;-77.3;826.8;935.6;998.4;10.1;-1976.;891.9;  1011.8;-971.8;-884.6;-77.3;826.8;935.6;998.4;10.1;-1976.;891.9;  1011.8;-971.8;-871.27.9;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.8;-97.	
VILLE 37-35-56-86-1714.  **E167-123-37-35-56-86-1714.  **E161-127-37-37-37-37-37-37-37-37-37-37-37-37-37	
** ** ** ** ** ** ** ** ** ** ** ** **	
DATA(XDEM(1:44),I=1,27)/22:3,1005.2,1008.0,962.7,669.2,733.,  DATA(XDEM(1:44),I=1,27)/952.3,1005.2,1008.0,962.7,669.2,733.,  = 560.7,360.9,143.3,=01.4,=302.,=507.8,683.6,5835.5,945.7,4750.9,127.2,7  = 1011.2,-971.8,-884.5,-753.7,-565.9,-386.5,-550.9,699.7,  = 1011.2,-971.8,-884.5,-777.3,86.6,128.2,-96.6,-316.5,-573.4,-375.1,  = 1014.1,-346.3,-1013.2,-1010.1,-367.3,-875.5,-973.4,-375.1,  = 1014.1,-346.3,-103.2,-1010.1,-367.3,-876.5,-999.4,1012.1,976.,891.9,  = 1014.1,-346.3,-103.2,-1010.1,-367.3,-876.5,-999.4,1012.1,976.,891.9,  = 1014.1,-346.3,-103.2,-103.1,-367.3,-86.8,-935.6,-999.4,1012.1,976.,891.9,  = 1014.1,-103.1,-103.1,-103.1,-103.1,-105.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.1,-103.	
DATA(VDEH(I,44),I=1,27)/992.3,1005.2,1008.8,962.7,869.2,733. *560.7,350.9,143.3;*01.4,*302.*-507.8;*638.5-835.5-941.4;*-1000.9; *1011.2,-971.8,-884.5,-753.7,-585.9,-173.4,56.9,127.7,7 *0ATA(2UEH(I,44),I=1,27)/346.6,128.2,-96.6,-316.5,-520.9,-699.7, *-158.4,66.1,287.4,494.5,677.3,825.8,998.4,1012.1,975.891.97 *0ATA(2UEH(I,45),I=1,27)/27*II24.8) *0ATA(2UEH(I,45),I=1,27)/27*II24.8) *0ATA(2UEH(I,45),I=1,27)/27*II24.8) *0ATA(2UEH(I,45),I=1,27)/27*II24.8) *0ATA(2UEH(I,45),I=1,27)/27*II24.8) *0ATA(2UEH(I,45),I=1,27)/27*II24.8) *0ATA(2UEH(I,45),I=1,27)/27*II24.8) *0ATA(2UEH(I,45),I=1,28)/0.0.3;0.6,0.3;0.455,0.0455,0.0515,0.055,0.7,0.0414(I,41),I=1,28)/0.0.3;0.6,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,0.3;11,	
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DATA(ZUEHILIAH), I=1,27)/346.6,128.2,-96.6,-316.5,-520.9, 699.7, -344.1,-346.9,-1003.2,-1010.1,-367.3,-877.,-743.5,-573.4,-375.1, -158.4,66.1,287.4,694.5,677.3,826.8,935.6,998.4,1012.1,976.,891.9, -158.4,66.1,287.4,694.5,677.3,826.8,935.6,998.4,1012.1,976.,891.9, -341A(XUEHILIAH), I=1,27)/27*1124.8/ -341A(XUEHILIAH), I=1,27)/27*1124.8/ -341A(XUEHILIAH), I=1,87)/27*1124.8/ -341A(XUEHILIAH), I=1,87)/27*11.1,72.0,2.2,5.3,4,4,5.5.2,7.4,4,5.5.1,18*,19*341A(XUEHILIAH), I=1,28)/0.25*1.417.2.2,2.5,3.4,4,5.5.2,7.4,18*,19*341A(XUEHILIAH), I=1,28)/0.25*1.417.2.445.6;1418.6;1978:1,298.1,3945.6*	
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DATA(YDEM(1,45),1=1,27)/22*1124.8/ DATA(20EM(1,45),1=1,27)/22*1124.8/ DATA(CLAM(1,45),1=1,27)/27*1124.8/ 0.0477.0.033,0.0435.0.0455.0.0485.0.0515.0.0519, 0.0477.0.033, 0.0477.0.033,0.0.053,0.0.9.3,0.0,15.2.2/ 0.0474(1,1=1,28)/0.0.25,1.41.7,2.0.25,3.44,4.5,5.2.2/ 0.0474(1,1=1,28)/0.0.25,1.41.7,2.0.25,3.44,4.5,5.45.7.418.114.115.115.115.115.115.115.115.115.115	
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# 20.4, T=1.1=1.728.74.0.445.6.1410.6.129.8.1.395.6.	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$
Data (DEL TAR (I) +1=1 +28) /0:+31, 2.445-6+1416:6:1978-1+2958-1+3945-6+	••I4••I2••ID••I(••I0••I9••
	1418:6;1978:1;2958:1;3945.6;
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	SUBROUTINE INIT
	GOMMON/EXTRA/NPTS;0X;XTERM;KKK;AS;SEU;SC;4SEO;K;SCALEL;VVVV;CI; *XLCS;YLOS;ZLOS;CO;6X;CY;CLY;CLZ;TRP;XX(50);THE
•	TCONMONICOMAZILEVEL, IP 15, XXS (50), XDT50, YDTCO, ZGTCO, RLB, COSE, SPO, RI, • GAM, EDOI, THETAL, RN,
	PPX (50), PPY (50), PPY (50), TIME (50), THAS (30), TAD S(30)
	*, YOTOGAS (200 ) 200 (200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 ) 200 (200 )
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0.1	- "
	*PHO, ARG; AMA, SCALET, TREAL, THA (30) *XTA, YTA, ZTA, SCALEV, QHM (10) ; QH
	:
13	.e.U.S.L.V.H.K.CELLV.FLV.V.B.FLV.V.B.F.C.V.B.F.V.DEF,ZUEF,ZZZ COMMON /COMMO/XD.YD.ZD.XDTG.YDTG.XDEF,YDEF,ZUEF,ZZZ
	CANDOLE TODE CON TOD TOD TO DESCRIPTION OF STAND MEAN OF ON
	#24.25.26.W1.W2.W3.W4.W5.W6.IFT.IPLANE.ICON.S2P1.SIP1.A2P1.A1P1.
	S2P2,5IP2,4ZP2,4IP2,5ZP3,SIP3,4ZP3,4IP3,5ZP4,5IP4,4ZP4,4IP4,5ZP5,
	COMMON/MANE UV/IIT, XDEM (30,45), YDEM (30,45), ZDEM (30,45),
	XOTCH (30), YDICH (30), ZOTCH (30), YPRIHE, THE SOUTH CONTROL OF THE SOU
	CORMON/GIARGER AA FRA FRA FRA FRA FRA FRA FRA FRA FRA
	18
	GENERATE THE DISTANCE TABLE FOR COLLECTING DATA POINTS SCALEP=20.*(102.375)/(1.+666)
	STPNEHPTS UTF=(KTFRH+(STPN-1,+nx)-(20,*100.)/
30	
	NAP (LECUS) GO 10 4/
	8 01 09
35	ARREST FOR NADJENPTS-IFIX (ARG)-1
9	CONTINUE JO 20 I=1,NADJ
	INDEX=NADJ-I+1
20	XX (INDEX) = XTERM + (XI*OX)_ XXS (INDEX)=-XX (INDEX)
02	CONTINUE
- 1	I F (SI.NE.1) PRINT 820, NPTS.DX.XTERM
4.5	1.64.1)
	PRINT 930 ***
20	
	333
21	נסיונואה. נסיינואה
55	XD×DM(1)

74774 DF181  100 = 100   1712776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  10172776  101727776  10172777777777777777777777777777777777

158   178, 178, 178, 178, 178, 178, 178, 178,		
X   X   X   X   X   X   X   X   X   X	115	0.
TEU-VELLI  TRUN-KELLI  TRUN-KELLI  TRUN-KELLI  TRUN-KELLI  TRUN-KELLI  TRUN-KELLI  TRUN-KELLI  TRUN-KELLI  TRUN-KERLI  TRUN-KELLI  TRUN-KERLI  TRUN-KE		
C CACOLATE INITIAL COSE  C CACOLATE INITIAL COSE  C CACOLATE INITIAL COSE  C CACOLATE INITIAL LOS  C CACOLATE INITIAL LASCE CENERIRE UNIT VECTOR  ET ACOSTACO SORTINO REFERENCE VECTOR  ET ACOSTACO SORTINO REFERENCE VECTOR  ET ACOSTACO SORTINO REFERENCE VECTOR  ET ACOLATE INITIAL LASCE CENERIRE UNIT VECTOR  C CACOLATE INITIAL LASCE CENERIRE UNIT VECTOR UNIT VECTOR  C CACOLATE INITIAL LASCE CENERIRE LASCE LAS		YEUSYETT
C CALCOLAIT "NITAL COSE  SIESNAMA 17  SOSS NATION TO A TOWN TO THE CALCOLAIR MAIN  DOSE - SILV (20)-13-59-51-164-126-17-59) F (AB*52*P0*54) 70/VV  C CALCULAIR THIAL APPARENT PLUME LENGTH-TO-BREADTH RAILO  C CALCULAIR THIAL APPARENT PLUME LENGTH-TO-BREADTH RAILO  C CALCULAIR THIAL APPARENT PLUME LENGTH-TO-BREADTH RAILO  C CALCULAIR THIAL LOS  A TOOS - RAS 2  A TOOS - RAS 3  A TOOS - RAS 3  A TOOS - RAS 4  A TOOS - RAS 5  A TOOS	120	ATE2.*HI*SQRTTXEU**Z*YEU**Z*ZEU**Z1/(PHO* (VVVV**Z)*ST*CLA*32.174)
C CALCULATE INITIAL COSE  S152   AI(1)   S152   AI(1)   S953   AI(1)   AI(2)   S954   AI(1)   AI(2)   S955   AI(1)   S955   AI(1)   AI(1)   S955   AI(1)   S95		AT=AT*OTR
SIERIN(A)    SIERIN(A)    DOSG = (SIE*(2)*C1>*C1*(20*S1/S9)F*(X0*S2*V0*SC1)7V0VV    E.O.		CALCULATE INI C1=COS(AT)
C		
C CACCUATE INITIAL APPRENT PLUME LENGTH-TO-BREADTH RAIIO  C CACCUATE INITIAL LOS  IF KAUGOS LAS O D 274-SINIBETI  C CACCUATE INITIAL INITIAL PUMP 2014/IUNAVU  C CACCUATE INITIAL PUMP 2014/IUNAVU  A CACCUATE INITIAL PUMP 2014/IUNAVU  C CACCUATE INITIAL PUMP 2014/IUNAV	1	
C CACULATE INITIAL APPARENT PLUNE LENGTH-TO-BREADTH RATIO C CACULATE INITIAL LOS  RECEVES SORTITAL LOS SORTITAL RASET CENTERLINE UNIT VECTOR  C CACULATE INITIAL LOS  C CACULATE INITIAL LAS GET CENTERLINE UNIT VECTOR  C CACULATE LAS SORTITAL RASET CENTERLINE CONTINE		E111 = COSE
C CALCULATE INITIAL LOS  ***LOS=-R**S**Z*****Z***Z**Z**Z**Z**Z**Z**Z**Z**Z		CALCULATE INITIAL APPARENT
C CALCULATE INITIAL LOS  Y LOS=R**S*  Y LOS=R**S*  Y LOS=R**S*  A ZLOS (AC)  BE = 4.005 (AC)  C CALCULATE INITIAL TARGET CENTERLINE UNIT VECTOR  C CALCULATE INITIAL TARGET CENTERLINE UNIT VECTOR  1 V V V V V V V V V V V V V V V V V V	130	PL8=KL34 * SQRT (1:-50)
C CALCULATE HORIZON REFERENCE VECTOR  AT 35-44-54  AT 37(12)-378-17   10   10   10   10   10   10   10		CALCULATE INI
C CALCOLATE HORIZON REFERENCE VECTOR  RGS-FC5.753RRYXDS-W2-PTCDS-W2)  RGS-COSTUBER  TRANSCACE CA. 0.0 CY=SIN(BET)  TRANSCACE CA. 0.0 CY=SIN(BET)  TRANSCACE CA. 0.0 CY=SIN(BET)  CX=COSTUBER  CX=COSTUBE		**LOUBLE STATE OF THE STATE OF
C CALCULATE HORIZON REFERNCE VECTOR  BET = 4.005 (ARC)  IF (ALC) = 4.00 T V = 5.5 NY (BET)  IF (ALC) = 4.00 T V = 5.5 NY (BET)  IF (ALC) = 4.00 T V = 5.5 NY (BET)  IF (ALC) = 4.00 T V = 5.7 NY (BET)  INVO V V V V V V V V V V V V V V V V V V		
### ### ### ### ### ### ### ### ### ##	1.15	CALCULATE
T		ARE*Y(D.5.SORY(XL.05**2))
Trix10S.GE.0.0  37=SIN 0ET    C		TE 12 0 0 0 2 = 2 0 0 0 0 0 0 0 0 0 0 0 0 0
C CALCULATE INITIAL TARGET CENTERLINE UNIT VECTOR  CLX=COSIGET  LUYUV  AUVUV  LUYUV  C CLX=(COST-SIZSGRT(XD-XD+7D+7D1)/  VUVUV  C CLX=(CD-SIZSGRT(XD-XD+7D+7D1)//  VUVUV  C CLX=(CD-SIZSGRT(XD-XD+7D+7D1)//  VUVUV  C CLX=(CD-SIZSGRT(XD-XD+7D+7D1)//  VUVUV  C CLX=(CD-SIZSGRT(XD-XD+7D+7D1)//  VUVUV  C CLX=(CD-SIZSGRT(XD-XD-YD+7D1)//  VUVUV  C CLX=(CD-SIZSGRT(XD-XD-YD+7D1)//  VACS-SIZSGRT(XD-SIZSGRT(XD-XD-YD-YD)//  VACS-SIZSGRT(XD-SIZSGRT(XD-XD-YD-YD)//  AGC-SIZSGRT(XD-SIZSGRT(XD-XD-YD-YD)//  AGC-SIZSGRT(XD-SIZSGRT(XD-XD-YD-YD)//  AGC-SIZSGRT(XD-SIZSGRT(XD-XD-YD-YD)//  AGC-SIZSGRT(XD-YD-YD-YD-YD)//  FIRSGRT(XD-YD-YD-YD-YD-YD)//  C CLX=(CD-SIZSGRT(XD-XD-YD-YD)//  AGC-SIZSGRT(XD-YD-YD-YD)//  B TRP=L-SIZSGRT(XD-XD-YD-YD)//  C CLX=(CD-SIZSGRT(XD-XD-YD-YD)//  B TRP=L-SIZSGRT(XD-XD-YD-YD)//  C CLX=CD-SIZSGRT(XD-XD-YD-YD)//  C CLX=(CD-SIZSGRT(XD-XD-YD-YD)//  C CLX=(CD-SIZSGRT(XD-XD-YD-YD)//  C CLX=(CD-SIZSGRT(XD-YD-YD)//  C CLX=(CD-SIZSGRT(XD-YD-YD)//  C CLX=(CD-SIZSGRT(XD-YD-YD)//  C CLX=(CD-SIZSGRT(XD-YD-YD)//  C CLX=(CD-SIZSGRT(XD-YD-YD)//  C CLX=(CD-SIZSGRT(XD-YD-YD)//  C CLX=(CD-SIZSGRT(XD-YD)//  C CLX=(CD-SIZSGRT(XD-YD)//  C CLX=(CD-SIZGRT(XD-YD)//  C CLX=(CD-SIZGRT(XD-Y		IF (xL05.6E.0.0) 3Y=SIN(BET)
C CALCOLATE INITIAL TARGET GENERLINE UNIT VEGTOR  1 VVVV 1 VVV 1 VVVV 1 VVV 1 VVVV 1 VVVV 1 VVV 1 VVVV 1 VVV 1 VV 1 V	140	CX=-C05(3ET)
10VVVV  10VVV  10VV		CALCULATE INITIAL TARGET CENTERLINE UNIT
CLY=y3*(C1+ZD*SI/SGRT(XD*XD*YD*YD))/  1VVVV  CLZ=(ZD*C1-SZRT(XD*XD*YD*YD)*S1)/VVVV  CLZ=(ZD*C1-SZRT(XD*XD*YD*S1)/VVVV  ACC=SGRT(IYCO*CLZ-ZLO\$*CLY)**2+(ZLO\$*CLZ-XLO\$*CLZ)**2  ACC=SGRT(IYCO*CLZ-ZLO\$*CLY)  **XLOS*CLY-YCO**CLX  **XCD*CY*(XO**CLX)**2)  ACC=XCD*CY*(XO**CLX)**2)  **XCD*CY*(XO**CLX)**2)  **XCD*CX*(XO**CLX)**2)  **XCD*CX*(XO**CLX)**		7.171.07
0 C CALCULC		YJ*(C1+ZD*SI/SQRT(XD*XD+YD*YD))/
A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R G = A R	145	VIVINA TERRORISMA CONTROL CONT
## ## ## ## ## ## ## ## ## ## ## ## ##		CALCULATE INI
# ( XLO )  # RG = A RG		A962=(1469#
## ## ## ## ## ## ## ## ## ## ## ## ##	150	**(XLO3*CLY-YLO5*CLX)**2)
1 HZ=A 1 F G = A 1 F G = C 80 TRP=T, 10		ARG=ARG1/ARG2
15 (14 & C   15 (1		THE=ACOS (ARG) ARG=XLOS*CLY-YLOS*CLX
18 118 118 118 118 118 118 118 118 118		01 69 10 80
80 TRP=1 80 TRP=1 60 TO 50 TO 50 TO 70 TRP=1 90 SPA=2 60 TRP=1 60 TRP=1 61 TR	155	.570796326)
80 TRP=1 85 TRP=1 90 SPO TO 10 PX = 2 10 PX = 2 11		4./1238898
85 TRP=1 90 SP37 10 NX = 17 TRP = 1 10 NX = 17 TRP = 1 10 NX = 17 TRP = 17		1
90 18P=1 90 0 N N N N N N N N N N N N N N N N N N		50 TO 90
NX=17 10	191	1RP=1.570796 SP0=1RP
0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   0411   04		71 = XN
71785 71785 71785 71785 7178		
P21185 P21839 A171 P2101	155	HG7F1=1209.675*H47E*EXP(-2.341*ALOG(RFEET/22965.831))
. H.		PIIRSS=2: * A TAN (: 5/R[0)
L'H		2
TUT-HC7FT/PJTUT		2
	170	FI7=H07F T/PJTUT

IPX=2
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SUBRO	SUB-TOUTINE INIT	11.11	0PF=1			FTNH 4.2+75348	+75348	01/12/76 14.30.45.	PAGES
SYMBOLIC	REFERENCE	HAP (R=1)							
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CAY3= (YA LM-YV CAY5= (CA LM-ZV CAY4= CARLE/JB CAY7= CAY2= CAY2= CAY2 CAY7= CAY2= CAY3 = CAY1 = CAY1 TEMP1= (CAY3 = CAY3 = CAY3 = CAY1 = CAY2 = CAY3		
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CAY6=CARL673 CAY6=3ARL7746 CAY7=CAY2=82 CAY3=CAY 1=87 TEMP1=CAY8* TEMP1=CAY8*		
CAY6=3ARL7/05 CAY7=0AY2=8-2 CAY3=CAY3=2-4 CAY3=CAY1=4 TEMP1=(CAY8-4 TEMP1=(CAY8-4		
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CONTRACTOR
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State   State   Corp   10	REAL   COMP   10   25   25   25   25   25   25   25   2		SN TYPE	RE	RECOCATION	,63	1010	DEAL		0700		
REAL   COMP   102 SEPT   COMP   COM	REAL   COMP   112 SPP   REAL   COMP	- 1	KEAL		OALJ	200	1416	KEAL		COURT		
REAL   COMP   T1 SPA   REAL	NEET		REAL		GEON	102	\$1P5	REAL				
REAL   REAL   REAL   REAL   REAL	REAL   COMP   613 5PF   REAL   COMP	1	REAL		4800	71	1425 2793	REAL		COMP		
REAL   COMP   EGG   TERPI   REAL	REAL	1	REAL		COMP	101	5225	REAL		COMP		
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REAL	REAL   COMP   SC HT   SEAL   COMP   SC HT     REAL		NE 31			146	VSHELL	REAL				
REAL	SEAL   COMP   SC H3   SEAL   ARRAY   MISD   SC H3   SC H3   SEAL   ARRAY   MISD   SC H3	1	REAL		GTARG	20	E T	REAL		COMP		
REAL	REAL   COMP   S44 MAR   REAL   COMP   S44 MAR   REAL   R		REAL		COAP	55	E M	REAL		COMP		
REAL	REAL   REAL   REAL   REAL	1	REAL		COMP	24	15	REAL		COMP		
REAL   ARRAY   HANEUN   SO ANH   REAL   ARRAY	REAL   ARRAY   HANEUV   O XM   REAL   ARRAY   HISD	,	REAL		COMP	543	XAI	REAL				
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REAL   HANEUV   610 KS   REAL	FEAL   HANEUV   547 7 AI		RESI	4884	MANFUV		XX	DE BI	APPAY	MTSD		
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REAL	REAL	1	REAL		COND	265	TAI	REAL				
REAL   ARRAY   MANEUV   25	REAL		REAL			245	YAIMD	REAL				
REAL   ARRAY   HANEUV   3 YN   REAL   ARRAY	REAL   ARRAY   HANEUV   51 YN   REAL   ARRAY   HISD     REAL	1	RE 1	ARRAT	MANEUV	56	YOH.	REAL	ARRAY	ÞK		
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SUBROUTINE QCLIM  **SLEATING************************************	CCLIM TIST.199.186.CLMS(IU).CLSZ(110).NSAM.UL.QZ.Q3.  *A2.N3.N4.4% F.IFT IUN.CLSZ(110).TCLSZ(110).NSAM.UL.QZ.Q3.  *A2.N3.N4.4% F.IFT IUN.CLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(110).TCLSZ(1
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A217-411*CLNSAN) A217-411*CLNSAN) A272-42*CLS(NSAN) A272-42*CLS(NSAN) A272-42*CLS(NSAN) A272-42*CLS(NSAN) A272-42*CLS(NSAN) A272-42*CLS(NSAN) A272-42*CLS(NSAN) A272-42*CLS(NSAN) A272-42*CLS(NSAN) A272-43*CLS(NSAN) A272-44*CLS(NSAN) A272-44*CLS(NSAN) A272-44*CLS(NSAN) A272-45*CLS(NSAN) A272-46*CLS(NSAN) A272-46*CLS(NS	
AIP1=31-41°CLMSTNSMM]  S1P2=42°CLS(NSMM)  A2P2=42°CLS(NSMM)  A2P2=32*CLS(NSMM)  A1P2=32+4°CLS(NSMM)  A1P2=32+4°CLS(NSMM)  A1P2=32+4°CLS(NSMM)  A1P3=33+43°CLMS(NSMM)  A1P3=33+43°CLMS(NSMM)  A1P3=33+43°CLMS(NSMM)  A1P3=34+44°CLMS(NSMM)  A1P3=45+44°CLMS(NSMM)  A1P3=46+46*CLMS(NSMM)  A1P3+44°CLMS(NSMM)  A1P3+44°CLMS(NSMM)  A1P3+44°CLMS(NSMM)  A1P3+44°CLMS(NSMM)  A1P3+4	
\$1222 HZ C C SZ (NSAM)  \$122 + HZ C C L SI (NSAM)  \$212 + HZ C C L SI (NSAM)  \$125 + HZ C C L SI (NSAM)  \$225 + HZ C C L SI (NSAM)  \$225 + HZ C C C C C SI (NSAM)  \$225 + HZ C C C C SI (NSAM)  \$225 + HZ C C C C SI (NSAM)  \$225 + HZ C C C C SI (NSAM)  \$225 + HZ C C C C SI (NSAM)  \$225 + HZ C C C C C SI (NSAM)  \$225 + HZ C C C C C SI (NSAM)  \$225 + HZ C C C C C SI (NSAM)  \$225 + HZ C C C C C SI (NSAM)  \$225 + HZ C C C C C C SI (NSAM)  \$225 + HZ C C C C C SI (NSAM)  \$225 + HZ C C C C C SI (NSAM)  \$225 + HZ C C C C C SI (NSAM)  \$225 + HZ C C C C C C SI (NSAM)  \$225 + HZ C C C C C SI (NSAM)  \$225 + HZ C C C C C SI (NSAM)  \$225 + HZ C C C C C C C C SI (NSAM)  \$225 + HZ C C C C C C C C SI (NSAM)  \$225 + HZ C C C C C C C C C C C C C C C C C C	
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A1P2=Q2-A2*CLMS(48A)  52P3=M3*CLS(NSA)  52P3=M3*CLS(NSA)  52P3-A3*CLS(NSA)  52P3-A3*CLMS(NSA)  52P4-A3*CLMS(NSA)  52P4-A3*CLMS(NSA)  52P4-A3*CLMS(NSA)  52P4-A3*CLMS(NSA)  52P5-A3*CLMS(NSA)  52P5-A3*CLMS(NSA)  52P5-A3*CLMS(NSA)  52P5-A3*CLMS(NSA)  52P5-A3*CLMS(NSA)  52P5-A3*CLMS(NSA)  52P5-A3*CLMS(NSA)  52P5-A3*CLMS(NSA)  52P5-A3*CLMS(NSA)  62P5-A3*CLMS(NSA)  62P5-A3*CLMS(	
\$2P5=W3*CLS2(NSM) \$1P3=R3*CLS1(NSM) \$1P4=L3+R3*CLS1(NSM) \$1P4=L3+R3*CLNSM) \$1P4=R4*CLMS(NSM) \$2P4=R4*CLMS(NSM) \$2P4=R4*CLMS(NSM) \$2P4=R4*CLMS(NSM) \$2P4=R4*CLMS(NSM) \$2P5=R5*CLS1(NSM) \$2P5=R5*CLS1(NSM) \$2P5=R5*CLS1(NSM) \$2P5=R5*CLS1(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5=R5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*CLNS(NSM) \$2P5*	
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2.2 P = 44 ° CL SC (NSAN)  2.2 P = 44 ° CL SC (NSAN)  2.2 P = 44 ° CL SC (NSAN)  3.2 P = 45 ° CL SC (NSAN)  3.2 P = 45 ° CL SC (NSAN)  4.2 P = 46 ° CL SC (NSAN)  4.2 P = 46 ° CL SC (NSAN)  4.3 P = 46 ° CL SC (NSAN)  4.4 P = 46 ° CL SC (N	
SIP4=N4*CLNSAN    A2P4=34+4*CLNSAN    A1P4=34+4*CLNSAN    A1P4=34+4*CLNSAN    A2P5=35+45*CLNSAN    A2P5=35+45*CLNSAN    A1P5=35+45*CLNSAN    A1P5=35+45*CLNSAN    A2P6=36+45*CLNSAN    A2P6=36*CNNSAN    A2P6*CNNSAN    A2P6	
A 2P4 = 34 + 44 * CLMS (NSAM)  J PF = 44 + 44 * CLMS (NSAM)  J PS = 45 * CLS (NSAM)  A 2P5 = 45 * CLS (NSAM)  A 2P5 = 45 * CLS (NSAM)  A 2P5 = 45 * CLMS (NSAM)  A 2P6 = 46 * CLS (NSAM)	
AITS-247-474-474-474-474-474-474-474-474-474	
\$105=45°CLSI (NSA4)  \$205=45°CLSI (NSA4)  \$205=46°CLSI (NSA4)  \$206=46°CLSI (NSA4)  \$206=46°CLSI (NSA4)  \$206=46°CLSI (NSA4)  \$206=46°CLSI (NSA4)  \$206=46°CLSI (NSA4)  \$206=46°CLSI (NSA4)	
A2P5=35+45*CLMS(NSAM) A1P5=45+45*CLMS(NSAM) S2P6=46*CLS(NSAM) A2P6=46*CLMS(NSAM) A1P6=46+46*CLMS(NSAM) A1P6=46+46*CLMS(NSAM) FILUM	
41P5=45-LHS(NSA4) 52P6=46*CLS(NSA4) 51P6=46*CLS(NSA4) 42P6=46+46*CLMS(NSA4) 7FLU&N FLU&N ENU	
27P6=H6*CLSZ (NSAH)	
2165-W6-CLMS(NSAM) A2165-G6-W6-CLMS(NSAM) A1165-G6-W6-CLMS(NSAM) PLIUČN	
AIDEGG-WE-CLMS(NSAY) PETUKN ENU	
PETUKN	
ENU	
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STABOLIC REFORMER NAP (R-1)   STABOLIC REPORT NAP (R-1)   STABOLIC REPORT NAP (R-1)   STABOLIC RAPE NAP (R-1)   STABOLIC RAP (R-1)   STABOLIC RAPE NAP (R-1)	No.	STHOOLIC REFERENCE MAP (RE1)   STHOOLIC REFERENCE MAP (RE1)   STHOOLIC REFERENCE MAP (RE1)   STHOOLIC REFERENCE MAP (RE1)   STHOOLIC REAL (REAL (REA	SUS	SUBSOUTINE BOLIS	74/74	0PT=1			FTNH 4.2+75348	2+75348	01/12/76	14.31.02.	PAGE	2
The   Relocation   To alpe   Real   Corp	State	Second   S	SYMBC								7			
Name	New	TYPE   REAL COMP   TO A1P2   REAL	ENTRY POINTS						•			ę.		
Name	Name	REAL   COMP   70 AP2   REAL   COMP   100 AP4   REAL   COMP   100 AP4   REAL   REAL   COMP   100 AP4   REAL   REAL   COMP   100 AP4   REAL   REAL   REAL   COMP   100 AP4   REAL   COMP   45 34   REAL   REAL   COMP   45 34   REAL   REAL   COMP   45 34   REAL   COMP   55 320   REAL   COMP   55 340   REAL   REAL   COMP   55												
100 A1P4 REAL   COMP	ARRAY COMP 100 A1P4 REAL COMP 100 A1P4 REAL COMP 107 A2P4 REAL COMP 107 A2P4 REAL COMP 107 A2P4 REAL COMP 60 1CON INTEGER COMP 60 1CON INTEGER COMP 60 1CON 107 S2 P4 REAL COMP 65 S1P4 REAL COMP 65 S1P4 REAL COMP 75 S2P4 REAL COM	100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100   100	RIA JLES		REL	COATION	7.0	4192	REAL		COMP			
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ARRAY COMP 107 A2P2 REAL COMP 107 A2P4 REAL COMP 107 A2P4 REAL COMP 50 100N INTEGER COMP 60 100N INTEGER COMP 60 641-NSAH INTEGER COMP 65 12P2 REAL COMP 76 51P6 REAL COMP 76 51P6 REAL COMP 76 51P6 REAL COMP 76 51P6 REAL COMP 76 52P2 REAL COMP 76 52P2 REAL COMP 76 52P2 REAL COMP 76 53P4 REAL COMP 76 53P4 REAL COMP 51 N2 N2 REAL COMP 51 N2	COMP 107 A2P2 REAL COMP 107 A2P4 REAL COMP 107 A2P6 REAL COMP 107 A2P6 REAL COMP 107 A2P6 REAL COMP 43 2 188 INTGGER COMP 43 2 188 INTGGER COMP 45 34 REAL COMP 65 31P5 REAL COMP 75 52P2 REAL COMP 75 52P2 REAL COMP 75 52P2 REAL COMP 75 52P4 REAL COMP 75 52P4 REAL COMP 75 52P4 REAL COMP 53 46 REAL COMP 55 46 REAL COMP	COMP 107 42P6 REAL COMP 107 42P6 REAL ARRAY COMP 107 42P6 REAL ARRAY COMP 57 12BM INTEGER COMP 65 12BM INTEGER COMP 65 12BM INTEGER COMP 65 12P4 REAL COMP 6		REAL		COMP	110	A1P6	REAL		COMP			
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SUBROUTINE GUID C** THIS SUBROUTINE GUID COMMON ANG/SINSO.COSSO.SINSCO.COSSCO COMMON ANG/SINSO.COSSO.SINSCO.COSSCO COMMON ANG/SINSO.COSSO.SINSCO.COSSCO **XDDE.YDDE.YDDE.ZD.XDI.YDTG.ZDI.G.XDEF.YDEF.ZDEF.ZZZ	INSCO + 20*COSSO					
SFORMS EARTH FIXED	* COSSCO + YD*COSSO*SINSCO - ZU*S * YU*COSSCO 0SSCO + YD*SINSO*SINSCO + ZO*COSSO					
JEROUTINE GUID S SUBROUTINE TRANS JHHON / ANG/SINSO,C DMHON / ANG/SINSO,C ODE,YDDE,ZDDE	XUTG = XU + COSSO TUTG = -XU*SINSCO 201G = XO*SINSC*CO RETURN END					
SUBTOUTINE GOLD	X Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z					

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SUBROUTINE GUID	IC REFERENCE MAP			Z	1	-1			REAL		13		PRO SAIN LENGTH										
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### 1000   10   10   10   10   10   10	1 29%					
LE.RETURNS(Z1)  LE.RETURNS(Z1)  GAMNA THAT MILL NOT ALLON  T-PRIME AND GGG FOR CAMA.  T-PRIME AND GGG FOR CAMA.  T-PRIME AND GGG FOR CAMA.  AND SCOOLS SOON SOON SOON SOON SOON SOON SOON			66 93,			1 1 1 1 1
TINE KSCALE, RETURNS(Z1)  VAUUE OF GAMMA THAT WILL N  TERRING THE ESTIMATED TI  VAUUE OF GAMMA THAT WILL N  TERRING THE TREAM GGG F  TGOMATCEVEL; IF TS; XXS 1501; XD1  OT; THETAL, N  TXOMP; TGOMPZGONP; TGOMPZGO		.ME-AT-1000-FT-10-GO-(T-PRIME )T ALLOA ANALOG OVERLOAD (GAN ACTOR-EQUATIONS THE RETURNED 33 CAMA. GG; TOTGG; ZOTGG; RLG; COSE; SPO; (50); TIME (50); TAMS (30); XOTGMS	), xMAN( 0), XMAN( 0), ZC, SM( 0), ZC, SM( CLT, NERR (A), TA, A), A), A), A), A), A), A), A), A), A		1 1 1 1 1	
		SUBROUTINE KSCALE, RETURNS(Z1)  C*** THIS ROUTINE GIVES THE ESTIMATED TI  C*** THEY DETERMINE THE VARIABLE SCALE F  C*** VALUES ARE G FOR I-RIME AND 666 FC  COMMONCOMPATEVECTIPTS;XXS(50);X01  *GAM, EDOT, THETAL, AN,	X20MP; VDTGHS (30) , ZD X20MP; VDDHP; X20MP;	R=RI AN=0. C=G+DG ARG1=CSART (YDTG0**2+ZDTG0**2) THETA2=RTAN21ARG1;ARG2) NPX=2 CG161:20:1 G0 -10 -2	### ### ##############################	RINT 53.6.0R T-PKIME =F10.4.44

DELTAR, NB, NPX, DR, NERR)  VM, NB, NPX, V, NERR)  **OR COS (THETAZ)  **L20000**PR*COS (THETAZ)  **L20000**PR*COS (THETAZ)  **OR  **OR	######################################	### ##################################	1		1	ľ				,	1	-	1	1	1			BI	-5	T_	A	V	AI	U	AB		(	DP 	Y
DELTAR, NB, NPX, DR, NERR)  VM, NB, NPX, V, NERR)  **OR COS (THETAZ)  **L20000**PR*COS (THETAZ)  **L20000**PR*COS (THETAZ)  **OR  **OR	######################################	60 3 5 6 6 5 6 5 6 6 6 6 6 6 6 6 6 6 6 6 6																											
DELTAR, NB, NPX, DR, NERR)  VM, NB, NPX, V, NERR)  **OR COS (THETAZ)  **L20000**PR*COS (THETAZ)  **L20000**PR*COS (THETAZ)  **OR  **OR	######################################	### ##################################																											
DELYAR, NB, NPX, DR, NERR) +DR+COS (THETAZ) ) = 20000.*V +(20000R+DR*COS (THETAZ) TO 50 TO 60 TO 60 TO 60 TO 60 TO 60 FAT GAMA HIN OVERLOAD =F10.4 GAMA HIN OVERLOAD =F10.1 ETAZ -R-XDTGO*GG) FIG.4) EST BIT A/D RESOLUTION =	### ### #### #########################	= 0.  = x01G0*x01G0  = x01G0*x01G0  4LL INTERFUGG; 1AHA, 04.NB.NPX, 08.NERR)  = x x01G0*x01G0  = x01G0  = x01G0*x01G0  = x01G0		ŗ							+	4										·							
05-17 AR, NB, NPX, V, VB, NB, NPX, VV, NB, NPX, VV, VB, NB, NPX, VV, VB, NB, NPX, VV, VB, NB, NB, NB, NB, NB, NB, NB, NB, NB, N	5=0.  5=65+05.  4. INTERPIGG, TAHA, US, NB, NPX, V, MB, NPX, MB	5=0.  5=0.  4. LINTERPIGG, TAHA, US, US, US, US, US, US, US, US, US, US		•	R,NERR)	)-20000-#V*CDS(THETA2)			•			AD =F10.4.4H SECT	VERLOAD =F10.1,3H FT)	0AD =F10.1.7H F1/SEC)	6)		•												
	60 56 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	60 5G=0  A=-X  A=-X  A=-X  VA [CA   CA   CA   CA   CA   CA   CA   CA		*x0160	DELTAR, NB, NPX,	+DR*COS (THET	E=A*G*G;+B*GG*C	050	2+1.€ 6-06	1/AN 0 60	E.1) PRINT 8	1 6	SI.NE.I) PRINT 90.02 HTCI 3X.33H DELTAR AT GAMA HIN TO	AT (10X+26H VY AT GAMA HIN OVER	0000./(DR*COS(THETA2)-R-XDTGO*G	0	**	SMALLEST BIT						,			6		

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		-								The second secon	

#### BEST AVAILABLE COPY TSPAN = TLAST - FFIRST THALF = FFIRST + TSPAN / 2. C*** INTERP RETURNS THESE VALUES FROM TAU ADJUSTED TARGET VELGGIT** TAME C*** DEFINE X- Y- AND ZDTG5 CALL INTERP (THALF,TMA,XUTGH,NT,NPX,XDTG5,NERR) C*** LITTERP RETURNS THESE VALUES FROM TAJ ADJJSTED TARGET VELGCITY-TIME C*** HANEUVER TABLE IN LAUNCH GOORDINATES. COMPOHENTS OF AEROUYNAMIC ACCELERATION IN EARTH-FIXED COORDINATES X0 = X0DE CALL GUID COMPONENTS OF AERODYNAMIC ACCELERATION IN LAUNCH COORDINATES TANGUVER TABLE TH-EARTH-FIXED-CORROINATEST CALL HILERP (FEASTATHARBHINT) NPX: XUEF, NERR) CALL HILERP (FEASTATHARBHINT) NPX: XUEF, NERR) CALL THTERP (TLAST, THA, YOH, NT, NPX, YOEF, NERR) CALL HILERP (TFIRST, THA, YOH, NT, NPX, YOEF, NERR) TODE TOBEL TOPE) TISPAN CALL INTERP (TLAST,THA,ZOM,NT,NPX,ZOEL,NERR) CALL INTERP (TET&ST,THA,ZOM,NT,NPX,ZOEF,NERR) ZUGE (ZDEL-ZUEF) TSPAN 322,174 ZU = Z05E TRANSFORM-THESE-TO-LAUNCH-COORDINATES DATA RIC, DIR/57, 2957795, 0.01745329/ *S1P5,42P5,41P5,82P6,81P6,42P6,41P6 LAST = TIMES(NADJ) FIRST = TIMES (1)

01/12/76 14.31.17.

FTNH 4.2+75348

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SUBSUUTINE PRIME

PRIME

SUBROUTINE

** YOTGHS(30)*PPY(50)*PPX(50)*THE(50)*THAS(30)*XUTGHS(30)* *YOTGHS(30)*ZOTGHS(30),XMAN(4,50)*XHISS(7)*NI *XOOMP*YOOMP,YCOMP,ZOOMP,TAVA(30),DECLAR(30),VH(30)*G-GGG *XOO,YOO,ZOO,DO,DOX,DOZGS,SS,SS,XON(30),VH(30),ZON(30), *CLWX;SCAEEP;FI;FZ,FS;GE;GE;GS;XCS,YGE,SC,XY,RRR*,SR;SPC,GTLSTC, *GPL,AI,VII,XE(30),YE(30),ZE(30),ZALI,NERX,CLA,NPX,NX,CLAA(10), *PPGGARG,TAATSCALET;TREAC;TYA(30);XTA;YTA;ZTA;SCALEV;QHH(10);QH

COHMON/DELI/PPXS(50),PPYS(50),PPZS(50),VMXS(50),VMYS(50),VMZS(50)
COHMON'/CCMB/XD,TD,ZO;XDTG,YDTG,ZDTG,XDEF,YDEF;ZDEF,ZZZ"""

COMMON TAUT COSMU1,SINM11,COSMU2,SINMU2,COSMU3,SINMU3

COMMUN/HISD/XH(3), YM(3), ZH(3), RH(3), NOPT, ICN

52

35

45

22

COMHON/MANEUV/ITT+XDEM (30,45), YDEM (30,45), ZDEM (30,45), XPRIME;YPRIME;

*,SA,CA,VXX(50),VYY(50),VYZ(50) *,ECOS(17),HR7EE(17),FI7T(9),FG17T(9) ZPRIME, TIMES (50), ITRAJ (60), ITAU (60), III, NADJ

15

COMMONICOMAILEVEC.1PTS.XXS(50),XDTGO,YDTGO,ZDTGO,ZLB,COSE,SPO.RI,*SAM,EDOI,THETAL,RN.

CALL INTERP (THALFITH A TOTICH NI THAPK TOTICS AND RANGE)  1	00000	SUBRCUTINE PRIME	14/16	0PT=1	FINH 4.2+75348	01/12/76 14.31.17.	PAGE	2
C*** CALCULE THE RP (THARE THA 2016A-18T)  51 F (22076-218-0.0) HULEAN RYTOTGS-2016-5)  15 F (22016-218-0.0) HULEAN RYTOTGS-2016-5)  16 F (22016-218-0.0) HULEAN RYTOTGS-2016-5)  17 F (22016-218-0.0) HULEAN RYTOTGS-2016-5)  18 F (22016-218-0.0) HULEAN RYTOTGS-2016-5)  18 F (22016-218-0.0) GO TO 54  18 F (22016-218-0.0) HULES SALOGO-2016-2018-2018-2018  18 F (22018-218-218-218-218-218-218-218-218-218-2		CALL	1 -	A.YDTGM	X,YDTG5,NERR)			
F(20165.HE.D.D)   HULEN INCETVUTGS.2016]			INTERP (T	HALF, THA, ZDTGM, NT, NP NGLES USED FOR THE T	*X.ZOTGS.NERR),	•		
F ( ZDT )   S   EQ ( 0. 0 AND   VOTS   D   VUL = 90.* VOR			TGS - NE . D .	0. AND - ATANZ (YOTGS. Z				
FIX		1F (20	TG5.EQ.0.	0.4ND.Y0165.01.0.0)	4U1=90.*DTR			
17 (170 10) 10 54  3 1F (**10165**eq.**10.00**10.54**2)  18 1F (**10165**eq.**10.00**10.54**2)  18 1F (**10165**eq.**10.00**10.54**2)  18 1F (**10165**eq.**10.00**10.54**2)  19 10 10 55  54 1F (**10165**eq.**10.00**20.105**2)  10 10 10 55  54 1F (**10165**eq.**20.105**2)  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 55  10 10 10 10 10 10 10 10 10 10 10 10 10 1		52 IF (XO	TGS. GT. 0.	GO TO 53				
53 IF († 10 GS = Eq. 0 AND-ZD 165 : Eq. 0		402=0 402=0	165 L T . U .	2				
F ( 17   15   16   16   17   17   17   17   17   17			TG5.EQ.0.	0. AND. ZD TG5. EQ. 0.01				
54 IF (70155-EG. 0.0. AND. 20165-EG. 0.0) 302=90.*DTR  ARC-SOAT (70165**2*20165**2  DATING  55 OANTHOL  COSMUL  COSMUL  COSMUL  COSMUL  COSMUL  SINHUL  SINHUL  SINHUL  ARGE EDDIC**SINHUL  COSMUL  ARGE EDDIC**SINHUL  COSMUL  ARGE EDDIC**SINHUL  COSMUL  ARGE EDDIC**SINHUL  ARGE EDDIC**SINHUL  COSMUL  ARGE EDDIC**SINHUL  ARGE EDDIC**SINHUL  ARGE EDDIC**SINHUL  COSMUL  ARGE EDDIC**SINHUL  ARGE EDDIC**SINHUL  COSMUL  ARGE EDDIC**SINHUL  COSMUL  ARGE EDDIC**SINHUL  ARGE EDDIC**SINHUL  ARGE EDDIC**SINHUL  COSMUL  ARGE EDDIC**SINHUL  AR		IF (YD	TUS .NE . D.	U. 3R. ZUTGS.NE. 0. 0) H	IUZ=360.*DTR-ATANZ(XDTG5.ARG)			
### TET (YOTGS-NE.0.0 SR.ZDIGS-NE.0.01 MJ2==ATAN2(XDIGS-ARG)  55				C.AND. ZOTGS.EQ.0.0)	HUZ=90.*DTR			
55 20NIINCE COSMUL = COS(MUL) SINHOL = SIN(HUL) ARGE=ZOS(HUL) ARGE=ZODIG*SINHUL-YDDIG*COSMUL ARGE=ZODIG*SINHUL-YDDIG*SINHUL*SINHUZ*ZDDIG*COSMUL*SINHOL ARGE=ZODIG*SINHUL-YDDIG*COSMUL ARGE=ZOS(HUL) SINHOL = SIN(HUL) SINHOL = SIN(HUL) SINHOL = SIN(HUL) IF (ISL=Z=1) GO TO 70 IF (ISL=		IF (Y)	TG5.NE.3.	0.3R.ZDTG5.NE.0.0T H	(J2=-ATAN2 (XDTG5, ARG)			
COSMUS = COS(MUL)  SINHOL = SIN(HUI)  SINHOL = SIN(HUI)  SINHOL = SIN(HUI)  ARGE=ZOSTOS = COS(MUL)  FRICTION = SIN(HUI)  IF (IGN.ME.1.AND.III.EQ.I) GO TO TO  TO CONTINUE  ARGE = AND			200					
SINHUL = SINHUUS)  COSNUZ = COSCHUZ)  SINHUL = SINHUUS)  ARGI=ZDDTG*SINHUL-YDDTG*COSHUI  ARGI=ZDDTG*SINHUL-YDDTG*COSHUI  ARGI=ZDDTG*SINHUL-YDDTG*COSHUI  ARGI=ZDDTG*SINHUL-YDDTG*SINHUI*SINHUZ*ZDDTG*COSHUI*SINHU  ARGI=ZDDTG*SINHUL-YDDTG*SINHUI*SINHUZ*ZDDTG*COSHUI*SINHU  ARGI=ZDTG*SINHUL-YDDTG*SINHUI*SINHUZ*ZDDTG*COSHUI*SINHU  IF (ISI.Eq.1) GO TO 70  IF (ISI.Eq.1) GO TO 70  TO CONTITUE  ARGINANS TO DEGREES FOR PRINT OUT  ARGINANS TO DEGREES FOR PRINT OUT  ARGINANS TO			I SE VALU	UI)	41x			
SINHUZ = SIN(HUZ)  ARGI=ZDDIC*SINHUL-YDDIG*COSHU1  ARGZ=XCDIC*CSSMUZ+YDDIG*SINHUL*SINMUZ+ZDDIG*COSMUI*SINH  ARGZ=XCDIC*CSSMUZ+YDDIG*SINHUL*SINMUZ+ZDDIG*COSMUI*SINH  AUG = SIN(HU3)  SINHUG = SIN(HU3)  SINHUG = SIN(HU3)  IF (IGN.E1.4ND.II.EQ.I) GO TO TO  IF (IGN.E1.4ND.II.EQ.I) GO TO TO  IF (IGN.E1.4ND.II.EQ.I) GO TO TO  AUG = MUI * RID  **** CARUE** CARUE**  **** AUG = MUI * RID  **** CARUE** CARUE**  **** AUG = MUI * RID  **** CARUE** CARUE**  **** AUG = MUI * RID  **** CARUE** CARUE**  **** AUG = MUI * RID  **** CONTINUE**  **** AUG **** AUG **** AUG *****  ***** AUG ***** AUG ******  ***** AUG ********  ***************************		STRND	SIN	UED				
### ### ##############################		SINMO		U2)				
COSMUS = CCS(MUS)  SINHUS = SIN(HUS)  IF (ICAN-R-1.4MD.TIL.EQ.I) GO TO TO  IF (ICAN-ES-1.4MD.TIL.EQ.I) GO TO TO  IF (ICAN-ES-1.4MD.TIL.EQ.I) GO TO TO  OCHITYUE  CANUE = MUS * RID  MUS = HUS * RID  IF (ICAN-EQ-1.0G TO 90  I		A462=	400 (2	MUZ+YDOTG*SINHUI*SIN	NUZ+ZDDTG*COSYUI*SINNUZ			
F (ICH.NE.1.AND.III.EQ.1)		DESOS STANDS	= C05	U3)	•			
PRINT 352.EEVEL.XDDTG.YDDTG.XDTG5.YDTG5.ZDTG5  70 CONITIUE  C.** CHANGE RADIANS TO DEGREES FOR PRINT DUT  **U1 = MU1 * RT3  **U2 = MU2 * # # # # # # # # # # # # # # # # # #		IFIE		0.111.EQ.13-60 TO 70				
C*** CHANGE RADIANS TO DECREES FOR PRINT OUT  *U1 = MU1 * R13  *U3 = H 34				L.xooto, vooto, zooto.	XDTG5,YDTG5,ZDTG5			
442 = 442  # #fb		Cove CHANGE	10 -	TO DEGREES FOR PRINT RID	aur			
FILISI.E3.11		405			and the second s			
COUTINUS  - DEMAILIOX,53H MANEUVER WAS IN PROGRESS AT TIME OF DATA - JIGX,8H LEVEL = 15.5X,8H X00TG =,51.6,4.5X,8H Y0DTG =,51.0  - SH Z0UTG =,510.4/10X,8H XUTG5 =,510.4,5X,8H Y0TG5 =,510.4  - SH Z0TG7 =,510.4)  - SH Z0T	•		9.1.0	. III.NE.1) PRINT 901	1, 401,402,403			
**./10x,8H~LEVEC =,15,5x,8H X0DTG =,F10.4,5x,8H Y0DTG =,F10.4,5x,8H Y0DTG =,F10.4,5x,8H Y0TGS =,F10.4,5x,8H Y0TGS =,F10.4,5x,8H Y0TGS =,F10.4,5x,8H Y0TGS =,F10.4,5x,6H H01 = F3.2,5x,6H H02 = F3.2,5x,6H H03 = F0.2,5x,6H H03 = F0		862 FORMA	. 100	MANEUVER WAS IN PRO	GRESS AT TIME OF DATA COLLECT	TION		
-34 20165 - 5F1 FORMAT (1.HD +10 RETURN END		*** ZDI	LEVE	-,15,5x,8H XDDTG =,	. 10.4,5X,8H YDDTG = F10.4,5X,			
URN			# F1	.4) ,6H MU1 = F8.2,5X,6H	1 MUZ = F8.2,5x,6H MU3 = F8.2)			
		END	7					
				6				

BES	T	A	VA	IL	AB	LE	((	PY

14.31.17. PAGE	٧.																												
01/12//10				COMA	COMP	COMP	COMP	COMP	COMP	CONA	COMA	COMA	COMA	CONA	COMA	CONA	HANEUV	HANEUV	CONF		COMA	CONA	DELT	CONA	GNOS	COMP	MISD	CONA	-
2+75348									ARRAY	,		ARKAT		ARRAT		ARRAY		ARRAY					ARRAY	ARRAY			ARRAY		
FINH 4.2+75348				REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL .	REAL	REAL	INTEGER	INTEGER	INTEGER	REAL	INTEGER	INTEGER	REAL	REAL	REAL	REAL	REAL	REAL	1834
				ARG	4 1 P 1	A1P5	A2P1	42P5	CLSI	COSMUZ	COSSCO	DELTAR	EDOT	F171	999	G2 HR7EË	LII	ITAU	199	401	!		PPXS	PPZS	72	36	RRR	SCALET	
				1620	434	104	63	1702	1605	70	1443	1261	1263	1425	1254	1430	10332	10236	-	413	1601	1116	9	1666	45	47	1436	1701	
TaldO			1000000	COMA	COMA	dk00	GONP	COMP	COMP	GOYP HU	ANG	COVA	COMA	CONA	COMA	CONA	COMP	GONP	COMP	COMA	MANEUV	COMP	COMA	CONA	COMP	COAP	COMA	COMA	4500
16/16	HAP (R=1)		38	,					ARRAY	ARRAY			ARRAY	ARRAT					ARRAY				ARRAY	AKKAT					
SURFOUTINE PRIME	REFERENCE		- 1	REAL	REAL	REAL	REAL	REAL	RE 3L	REAL	REAL	REAL	REAL	REAL	REAL	REAL	INTEGER	INTEGER	INTEGER	REAL	INTEGER	INTEGER	REAL	REAL	REAL	REAL	REAL	REAL	-
SURFOUL	SYMBOLIC	POINTS	. 1	1621 AAA	ARGI A1	1	!	1	CL J	CL 52	50880		1	1	GAN	22	IFI	ISI	ISS		1	NS 24	Ydd	Zdd	23		1	1	
		ENTRY		1621	1444	100	110	101	1662	27	9-1	333	1252	1424	1426	1427	36	-	10142	414	10333	1604	151	1700	29	72	2251	332	

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1.17. PAGE 4						•																														The second secon							
01/12/76 14.31.17	e A		COMA	COMP	- GWD	CONA	COMP	COMP	COMP	COMA		СОНА	CAMA	***************************************	COMA	COMA	COMA .	A COUR	9800	COMP	COMA	COMB	MANEUV	COMA	HANEUV	COMA	COMA	COMA	COMA	COMB	MANEUV	COAR	MANEUV	000 A MOO	MANEUV	COMA	COMB	8500	MANEUV	COMA	MANEUV	COMA	200
2+75348										ARRAY		ARRAY	VACCA	- TANK	ARRAY	ARRAY	ARRAY					•	ARRAY		ARRAY	ARRAY	ARRAY	ARRAY			ARRAY		ARRAY	ARRAY					ARRAY		ARRAY	ARRAY	
FINH 4.2+75348	REAL	REAL	. REAL	REAL	DEAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	DE AL	REAL	REAL	REAL	REAL	KEAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	
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	-	7	1442	29	100	1264	- 69	75	105	1122	421	325	207	420	1703	1765	2002	1442	53	55	1117	12	1	1250	7723	1445	577	10059	1120	13	2507	1257	1977	1504	10096	1500	1121	15		1260	10017	1542	
0PT=1	RELOCATION ANG	COMA	COMA	CONA	450	COMP	COMP	COMP	COMP	COMA		COMA	TOWN.	CONA	COAA	DELT	DECT	DELI	9 9 9 9	COAP	CONA	COMB		COMA	5048		MISD	DO TA	COMA	COMB		CONA	9503	4 500	MISD	COMA	COMA	07:00	Ą	COMA	6098	AFCO	
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NE PRINE	N TYPE	DE 31	REAL	REAL	DEAL	REAL	REAL	REAL	. REAL REAL	KE4L	PEAL	REAL	SEAL	REAL	REAL	REAL	REAL	Keal	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	REAL	- KEAL	REAL	REAL	REAL	REAL	RE4L	REAL	REAL	KEAL OFA!	DEAL	REAL	SEAL	0E4L	ACAL P541	

1430 SPL 1437 SPL 1437 SPL 1435 SIPS 1435 SIPS 106 SIPS 106 SIPS 110 SSPI 1265 SIPS 1266 SIPS 1267 SSPI 1267 S

1653 Y14 1653 Y14 1653 Y14 1653 Y14 1653 Y14 1654 Z0 427 Z0016 427 Z00

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SUBROUTIN

	SUBROUTINE PRINE	VE PRIME	14/74 0	OPTEL			FTNH 4.2+75348		1/21/1	01/12/76 14.31.17.	PAGE	•
TYPE ARGS   CUSS   REAL   LIBRARY   REAL   LIBRARY   L	FILE NAMES OUTPUT	FHT							*	. s		
KELL   C   LURANT   LUSANT   KELL   LUBART   L	KTĖRNALS	-	893									
SGRI	GUID	REAL	Z LIBRARY 0				REAL	I LIBRARY				
INACTIVE	NIS	REAL	LIBRARY			Sart	REAL	1 LIBRARY				
FAT 131 94 354 862 FMT  ERGIH  1165  130  30  30  30  13  14  15  15  18  18  19  19  19  19  19  19  19  19	ATE YENT LABELS 0 50	1		0	51	INACTIVE		1	2	INACTIVE		
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13 285 285 285 285 285 285 285 285 285 285	1	1165										
160 S 850 FT. S62 850	MANEUV	4315										
139 205 134038 - 8691	DELT	300										
4.358 2.85 4.358 5.691	300	9										
134038 285 4358 285	CCSP	***										
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134038	PROGRAM LENGTH		4358	285								
	CM LABELED CON	MON LENSTH	134038	1695		•						-
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MT100x00	SULKOUTINE HISCOM 74/74 OPT=1 FTNH 4.2+75346 01/12/76 14.31.22. PAGE 1
	SUBROUTINE MISCOM
	C THIS SUUROUTINE CALCULATES THE MISS DISTANCES IN THE TARGET
2	C COORDINATE SYSTEM
	COMMON
	COMMON/PELTACED : (1501) : ATTACKED : ATTACK
	COMMON /COMB/XD, XD1G, YD1G, YD1G, XD1G, XD1G, XD1G, YDEF, YDEF, ZD2
	6,X00E,Y00E,Y00E COMMON/MANEIW / ITT. XDEM (30.45). YDEM (30.45). ZDEM (30.45).
-	* XDIG4(30, YORGH(30), ZDIG4(30), YPRIHE, YPRIHE,
	ZPRIME, THES (50), ITRAJ(60), III, NADJ
15	*COMMUNIONALEVELTITIS*XXXISUI*XUICO**IDICO**LOSE*XIO*XIO*XIO** *GAM:GOOT**HETAL.XN.*
	PPR (50), PPY (50), PPZ (50), TINE (50), THAS (30), XOTGHS (30)
	TOTAL STANDS TO THE TANK AND TH
	**XD3.YD3.2D3.QXG.PY6.PZ6.SZ.53.54.55.5XD3.TSD1.YD3.13D).YD3.13D).ZD3.4XD3.TD3.
20	** ** ** ** ** ** ** ** ** ** ** ** **
	"OPL.AI.VII.XE(30), YE(30), ZE(30), ZALT.NERR.CLA.NPX.NX.CLAA(10).
	*PHJ-845.8748750FEZIT XRANL-1HA 530)*XIA.ZIA.SCALEV.QHH(10)*QH **AL.GA.HH(560)*VHY(560)*VHZ(560)*
	* ECOS(17) HAZEE(17) F171(9) FC177(9)
52	COMMON/SIARGFXA,FYA,FZA,FX8,FY8,FZ8,FXC,FZC.AT,VI
	COMMON/COMD/CCOSA,COSG,COSG,YA+ZA COMMON/COMP/IS1,199,108,CLMS(10),CLS2(10),CLS2(10),NSAM,Q1,Q2,Q3,
	#C4425, 15-WI-72-W4-W5-W6-FFT-IPCANE-ICON, 52PI-5IPI-42PI-AIPI-
30	SCTC5.42756415552266.5170.4575.4170.65770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.45770.
	COMMON/EXTRA/NPTS+DX+XTERM+KKK+AS+SEO+SC+ASEO+R+SCALEL+VVVV+C1+
	*KL05;YL35,ZL05;G3,GX;GY;GLY;GLZ;TRP;XX(50),THE DIMENSION 1(50),XI(50),YI(50),2I(50)
95	11745
	O P III
	XIIIO
	SHXZ=0.
0.5	C*** WEXT CARD IS TAPE SPECIFIC FOR ITT 1 FOR STATIONARY TARGET
	EX = CONMUS + CONMUS
	STUMUIS
45	FZ=SINHU1*5INHU3*COSHU1*SINHU2*COSHU3
	FYA # FY
	FX=CU:MU2*SIZHU3
05	FY=COSHU1*COSHU3+SINHU2*SINHU3
	F Z COSTUL STUMUS - SIMMOS - S
	1 11
53	7 d # 57 d
	FA STAINING

C THIS SUURUITINE CALCULA C COGRAINATE SYSTEM C COMMON/AISD/XM (31, YM (20, 40, 40, 40, 40, 40, 40, 40, 40, 40, 4	SUBROUTINE MISCON  IS SUURQUITINE CALCULATES THE MISS DISTANCES.IN THE TARGET  COMMON/HISD/KH(31,YM13),ZM(31,RM(31),W1S(50),W1S(50),W1S(50)  COMMON/HISD/KH(31,YM13),ZM(31),RM(31),W1S(50),W1S(50)  COMMON/HISD/KH(31,YM13),ZM(31),ZM(31),W1S(50),W1S(50)  COMMON/HISD/KH(31,YM13),ZM(31),ZM(31),ZM(31)  COMMON/HISD/KH(31,YM13),ZM(31),ZM(31),ZM(31)  COMMON/ANEUV/IT,XMH(31,M1),YM(31),ZM(31),ZM(31)  COMMON/ANEUV/IT,XMH(31,M1),YM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(31),ZM(	
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19 CONTINUE   1	### SPECIFIC FOR ITT=1 FOR STATIONARY TARGET  ### SPECIFIC FOR ITT=1 FOR STATIONARY TO F
19 CONTINUE  15 (1111-E0.1.0R.VVVV  10	### SPECIFIC FOR ITT=1 FOR STATIONARY TARGET  ### SPECIFIC FOR ITT=1 FOR STATIONARY TARGET FIXED GODROINATES  ### SPECIFIC FOR ITT=1 FOR STATIONARY TARGET FIXED  ### SPECIFIC FOR STATIONARY TARGET FOR STATISTED  #### SPECIFIC FOR STATIONARY TARGET FOR STATISTED  #### SPECIFIC FOR STATIONARY TARGET FOR STATISTED  ###################################
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*** NEXT CARD IS TAPE SPE  IF (ITT, CT. 1) GO TO 3  IF (VVVV. LT. 338.0) GO  IF (VVVV. LT. 338.0) GO  ITANSFORM (HISSILE HISS  TAGE: T COSROINATES  *** NEFERENCEO'TO'ORISINA  *** T(I) = FXA*OX + FYA  *** T(I) = FXA*OX + TYA  *** TYA TYA	E SPECIFIC FOR ITT=1 FOR STATIONARY TARGET  10 03 10.  E MINUS TARGET7—LAUNCH—COORDINATES TO GENERALIZED  E MINUS TARGET7—LAUNCH—COORDINATES TO GENERALIZED  F 170 10. F 220.02  F 170 10.
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ZT(1) = FXC+0X + FY AA = 1116.89+0.00389 VT = SGZTIXDEFF ** Z* T DE ARG=0.0003*ZZ PHO=0.00237692*EXP IG CALC LHTERP IGH; ZMH AT = 16500.0 ST = Z* 43.0 AT = 16500.0 ST = Z* 43.0 AT = 2* ** MF* SQRT (XDDE** AT = 2* ** AT (1) F C = 10* C =	# FYC+DY + F2C+DZ # ANGEC DE ATTACK  103.04-222  2*TDEF**2*2.DEF**2)  2*TDEF**2*2.DEF**2)  **EXPIAR3)  # TANH-CLAA,NX,NPX;CLA,NERY  # TANH-CLAA,NX,NPX;CLA,NERY  **ILZED TARGET GOORDINATES TO TARGET FIXED GOORDINATES  **ILZED TARGET GOORDINATES TO TARGET EARTH FIXE
AAA=116.89+0.00389 VT=ST37TXDEF************************************	ANGLE OF TATACK  103694-222  2470EF**220E**2)  EXP (AR3)  172MF,CLAB,WX;NPX;CLA;NERY  172MF,CLAB,WX;NPX;CLA;NERY  172MF,CLAB,WX;NPX;CLA;NERY  172E0 TARGET COORDINATES TO TARGET FIXED COORDINATES  176. SINIATION TO TARGET EARTH FIXED  171-22*SINIATION TO TARGET EARTH FIXED  172E0 TARGET COORDINATES TO TARGET FIXED  172E0 TARGET COORDINATES TO TARGET FIXED  172E0 TARGET STATIONARY OR HOVENG AT LESS THAN 338 FT/SEC  172E0 TARGET STATIONARY OR HOVENG AT LESS THAN 338 FT/SEC  172E0 TARGET STATIONARY OR HOVENG AT LESS THAN 338 FT/SEC  172E0 TARGET STATIONARY OR HOVENG AT LESS THAN 338 FT/SEC  172E0 TARGET STATIONARY OR HOVENG AT LESS THAN 338 FT/SEC  172E0 TARGET STATIONARY OR HOVENG AT LESS THAN 338 FT/SEC  172E0 TARGET STATIONARY OR HOVENG AT LESS THAN 338 FT/SEC
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	LIZED TARGET COORDINATES TO TARGET FIXED COORDINATES  TOTAL STAT TAILDIPE  LAUNCH COORDINATES TO TARGET FIXED  TI-ZS*SIN(AT)  E LAUNCH COORDINATES TO TARGET EARTH FIXED  REET IS STATIONARY OR HOVING AT LESS THAN \$35 FT/SEC  REPLACESS  RINT 15*XI(1)*YI(1)*ZI(1)  TI-ZS*SIN(AT)  TOTAL STATIONARY OR HOVING AT LESS THAN \$35 FT/SEC  RINT 15*XI(1)*YI(1)*ZI(1)
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XS=XT(1) YS=YT(1) YS=YT(1) YS=YT(1) YS=YT(1) YS=YT(1) REF_KENCED TO ORIGIN XT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=25°COS(AT)*XS* YT(1)=	LIZED TARGET COORDINATES TO TARGET FIXED COORDINATES  ATOMINAT TAILPIPE  TI+XS*SIN(AT)  TI-ZS*SIN(AT)  E LAUNCH COORDINATES TO TARGET EARTH FIXED  REGI IS STATIONARY DR HOVING AT LESS THAN 350 FT/SEC  *SPL+J2*S3  *CPL+D2*S5  *CPL*CPL*CPL*CPL*CPL*CPL*CPL*CPL*CPL*CPL
XS=Y1(1) YS=Y1(1) ZS=Z1(1) ZS=Z1(1) REFLERCED TO ORIGIN XI(1)=Zy=COS(AT)+XS= YI(1)=Zy=COS(AT)+XS= YI(1)=Zy=COS(AT)+XS= YI(1)=Zy=COS(AT)+XS= YI(1)=Zy=COS(AT)+XS= YI(1)=Zy=COS(AT)+XS= YI(1)=Zy=Zy=Zy=Zy=Zy=Zy=Zy=Zy=Zy=Zy=Zy=Zy=Zy=	LIZED TARGET COORDINATES TO TARGET FIXED COORDINATES  ATGIN-AT TAILPIPE  T) - XS*SIN(AT)  T) - ZS*SIN(AT)  E LAUNCH COORJINATES TO TARGET EARTH FIXED  RCGT 12. STATIONARY DR HOVING AT LESS THAN 350 FT/SEC  *SPL+J2*S5  *OZ++J2*S5  *OZ++Z*S5  *OZ+*Z(I) *OZ
LS=L(I)  TRANSFORM GENERALIZED  REFERENCED TO ORIGIN  XI (I) = 25 COS (AT) + XS  XI (I) = 45  ZI (I) = 45  TRANSFORM HISSILE LAUN  TRANSFORM HISSILE LAUN  TO COORDINATES, TARGET 1  30 XI (I) = 10X*5Z-07*5PL*0  XI (I) = 10X*5Z-07*5PL*0  XI (I) = 10X*5Z-07*5PL*0  XI (I) = 10X*5Z-07*5PL*0  XI (I) = 10X*5Z-07*5FL*0  XI (I) = 10X*5Z-	TO TARGET COORDINATES TO TARGET FIXED COORDINATES  ### A COORDINATES TO TARGET FIXED
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	E LAUNCH COORJINATES TO TARGET EARTH FIXED ELAUNCH COORJINARY OR HOVING AT LESS THAN 338 FT/SEC  *SPL+02*S3 *CPL+02*S3  *CPL+02*S5  *CRL*1 15.XI(I),YI(I),ZI(I)  I:\$)
	### 15-STATIONARY OR HOVING AT LESS THAN 338 FT/SEC ####################################
TT(I)=UX*S4+0Y*CPL+0Z*S5  ZT(I)=-JX*STL+0Z*CTL  4 C0-1114UE  IS TOPART(ISTSX+EII.47)  SMA=SMA*ATT(I)	100 + 105 * 55
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NEAN   SYS= SVS + DUM*DUM   SS = SS/KNR   SVS= SVS/KNR   SVS= SVS/KNR   SYS= SVS/KNR   SVS= SVS/KNR   SVS= SVS/KNR   SVS= SVS   SVS= SVS=	•
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35 FORMAT (3584HEANGF10.3) 36 FORMAT (336HST DEV4F10.4) END	
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SUBROUTINE MEAN	SYMBOLIC REFERENCE	ENTRY POINTS	AN	BLES SN ARH	AL AID! DEAL	AIPS	A1P5		3 CLMS REAL	27 CLSZ REAL 273 DOUG REAL	151	ISI	5	21.	46 Q5 REAL	SS	274 SVX REAL	SY		\$105	71 SZPS RFEL	\$225	52 H3 REAL	265 XNN REAL	NAMES HODE		2	INLINE FUNCTIONS TYPE	STATEMENT LABELS 23 9	13
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C	27	INPU	ARIABL	BE SECECTED BY THE USER.			
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C C OUTPUT C C L Y C C L L Y C C L L Y C C DIMENSION XT(11) NP=HPX IF (NX .LT. NP) NP=HPX IF (XT(11) - X)30 LE 14 R # 1 CO TO 70 CO TO 70 CO TO 70 A3 NER # 2 CO TO 70 CO T			. XAN	OF POINTS USED IN THE IN	TERPOLATING FORMUL	A	
C C L NERR C C DIMENSION XT(11) NERR = 0 NERR =				DEGREE OF THE INTERPOLATION	ION FORMULA USED.		
C DIMENSION XT(T1)  NERR = 0  NP=119X  IF (NX .LT. NP)  IF (NX .LT. NP)  IF (XI (L) - X) 30  SO TO TO  CO TO TO  SO TO TO  SO TO TO  TO TO  SO TO TO  SO TO TO  TO TO  SO TO TO  SO TO TO  TO TO  SO TO TO  TO TO  SO TO TO  TO TO  TO TO  TO TO  TO TO  SO TO TO  TO	02		>	TERPOLATED DEPENDENT VALUE	E. Y=F(X)		
C DIMERSION XT(I) T(I)    DIMERSION XT(I) T(I)     NERR = 0			NERR	IF XT(1) .LE. X .LE. XT(	VXI		
DIMENSION XT(11)  NERR # 0  NP=11PX  IF (NX .LT. NP)  X		٥٥	NERR =	1 IF X .LT. XT(1)			
NERR	52		1			•	
		NERR			*		
		IF (NX	a Z	. X			
	30	# SH	THX #1691726			,	
12 4ER # 1 13 NER # 2 60-10-70 20 Y = Y(1) 50 TO 399 30 I = NX IF (XY(I) = X)13,20,50 50 L = IH + 1 IS = NS+C IF (XY(I) = X)54,20,56 54 L = I 56 L = I - 4S 56 U = I - 4S 56 U = I - 4S 56 U = I - 4S 57 NEW + 18 58 D = 0 T = 1,20,50 59 D = 1 - 4S 59 D = 1 - 4S 50 D = 1 - 4S		15	1				
13 NERR = 2 60 T0 - 70 20 Y = YT(I) 20 Y = YT(I) 20 L = NX IF(XT(I) = X)13,20,50 50 L = IN + 1 13 = N3,41 IF(XT(I) = X)5,4,20,50 50 D 54 IF(XT(I) = X)5,4,20,50 60 T0 58 50 D 50 IF(XT(I) = X)5,4,20,50 F(XT(I) = X)5,4,50,50 F(XT(I) = X)5,4,50,5	35		-				
20			2 = 2				
30 I = NX 10 I X   X   X   X   X   X   X   X   X   X			1(1)				
F (X1(1) =   50 L	0.5			•			
IS = NS+L  IF (Nx-1S) 58  IF (XT(I) = IF (			•	•			
54 [E (XI(I) - IF	45	IF CNX					
54 L = 15 60 T0 58 59 D0 50 I=L 59 D0 50 I=L FIXIII = 15 60 CONTINUE 70 M = K + NP		15 00 54 IF (XI	= =				
59 D 50 I= 1.5 59 D 50 I=L 60 CONTINUE 70 K = I - IH 8 = K + NP							
60 CONTINUE 70 N = I - IH N = K + NP	20		- 15 I=L		-		
N = X = V = V = V = V = V = V = V = V = V		1					
0.0 = 7	55	" " K Z	+ NP -				
		D = 1		•			

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01/12/76 14.31.32. P4GE 2											-			£				,
FINH 4.2+75348			•	/ (KT(J) - KT(E))			•	•				•		•				•
J SUBROUTINE INTERP 74/74 OPT=1	XX III X OG 60	60 90 00 120 J=K,N	P = 1.0 00 110 I=K,N	100 P = P (X - XT(I)) / (XT	END												All products to	,

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STROUGH REFERENCE RAP (8-1)  STROUGH REFERENCE RAP (8-1)  DOINTS  THE CASE	SN TYPE SN TYPE INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER REAL REAL	F.P. 65 30 0 54 0 60 120 0 120 0 120 0 120 0 120 0 120 0 120 0 120	H7-1722×-		37 1 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	INACTIVE INACTIVE
TYPE	SA TYPE SA TYPE INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER	F.P. 6 12 45 30 0 54 0 54 0 50 0 54 0 54 0 54 0 5	אלאקער רוו	A A C C C C C C C C C C C C C C C C C C		INACTIVE
TYPE	SN TYPE INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER REAL	F.P. 65 30 0 54 0 54 0 50 0 50 0 12 0 12 0 12 0 12 0 12 0 12	HO JEXXX	MINITEGER A PER CER A PER		INACTIVE
	SN TYPE INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER	F.P. 6 30 0 54 0 54 0 54 0 54 0 54 0 54 0 54 0	- × × × × × × × × × × × × × × × × × × ×	MINITEGER NITEGER NITE		INACTIVE
NEGER	INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER INTEGER	F.P.  6.7  6.7  1.7  1.8  1.82		THITEGER NITEGER REGER R		INACTIVE
		F.P. F.P. 45 30 0 54 0 54 0 60 117 90 132	ל א ל ב ל ב ל ב ל ב ל ב ל ב ל ב ל ב ל ב	A A A E E E E E E E E E E E E E E E E E		INACTIVE
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INTEGER 6 0 NEX INTEGER F.P.  INTEGER 6 P.P.  INTEGER F.P.  INTEGER F.P.		4.7. 6.0. 11.1. 1.32	Z Z X X P	NATEGER ALL GER & STATE GER &		INACTIVE
REAL   ARRAY   F.P.		F.P. 6	××	INTEGER CERT		INACTIVE
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ARRAY F.P.  WE 45 30 INACTIVE 0 50  WE 0 650  WE 117 99  WE 120 145 999  INDITIVE  ***  ***  ***  ***  ***  ***  ***		F.P. 65 45 117 117 117 117 117 117 117 117 117 11				INACTIVE
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SHEEP PINE   FOOT   STATES   STATES   SHEEP PINE   SHEE		SUSFOUTINE FLIGHT 74/74 OPT=1	FTNH 4.2+75348	01/12/76 14.31.35.	PAGE 1
######################################		1.16		٧,	
**************************************		SS, MIS			
** VAIL-SEGIAL ;** OF TABAL (3D) - (1) AND LEAST AND LEA		, THETA	PZ(50),TIME(50),TS(30),		
***C2***C2****************************		YOT GHS (30) . ZOT GHS (30)	50) + HISSEULTI + NT + XCOMP.		
*62.53.40 'v. 120.531.RR.S.R.SR.OT. OT. 281.0 Pt. 14.vT. vE 613.74 PT. 14. 17. 14. 14. 14. 14. 14. 14. 14. 14. 14. 14		4.55.XDH(30).YDH(30).ZJ+(30	32L BK, SCAL FP. F1 . F2 . F3 . G1.	•	
*** **********************************		, ZC, S1, RRR, SR, SPL, CTL, ST	.VII.XE (30		
### CONTRACTOR   C		VIA 214 SCAL FV 2004 (10) -	A.CA.VHX SON.VHY SON.		
COMMON/COMMONATION  * IAOUHITAIN ADGL/2;  * IAOUHITAIN ADGL/2;  * COMMON/IDISZ/IN  COMMON/IDISZ/IN  COMMON/IDISZ/IN  COMMON/IDISZ/IN  COMMON/IDISZ/IN  COMMON/IDISZ/IN  COMMON/IDISZ/IN  COMMON/IDISZ/IN  * COMMON/IN  * COMMON/I		\$(17);	(6)		
* TADINATION * TADINATION * TADINATION * DACUTE, DACUT		MANA	ADSF (10) . INFLRT . LTMAX		
* TADIN7.TADIN COMMONA** TOU C		33	N		
COMMONY TOI COMMONY OUT * UACUTY DAOU * UACUTY D		3			
### SAVES = 1 A B A S A S A S A S A S A S A S A S A S		3.5			
# UACULTA DAOU # UACU		NO THE DESCRIPTION OF THE PROPERTY OF THE PROP			
* 045017************************************		THE COLLEGE OF THE COLLEGE OF THE CONTRACTOR OF THE COLLEGE OF THE	1.00		
\$ TRI.6AH;EJOT 2XDHP;2JOT 2XDHP;2JOT 3XSYDTG 3XCTYC 6XS,S3,S 5CTYC 6XS,S3,S 5CTYC 6XSYSYDTG 5XSYDTG 5X		*DAULT, DAOUTS, DAJUT9, DAOUTIG, DAOUTIL			
DA:, JF  B		CO: 40.07*001327100T			
### TRI.64H FEDOT 2XD1345.YDG 2XD1345.YDG 2XD1345.YDG 25.5.3.5.3.5					
IRI, GAH; EJOT; THETAL; RN; PPX; PPZ; TNE; TS;   ZXD134S, YDTGH; 2D1GHS, MAN, MISSEONI; XCOMP;   37C0H7; 2D3   STOMP; AND   SECONIXO; YDD; AD1, AD2, GG; SZ   SZ   SZ   SZ   SZ   SZ   SZ   SZ		NAMEL ISTATE	0, ZDTGO, RLB, GOSE, SPO,		
ZXDI33S.YDIGMS.ZDIGMS.MAN.HISSEO.NI.XCOMP. 3TCOMP.ZCOMP.TRA.DDELTR.WH.GGCGXNO.YDISZD 4D.CG.\$2.3.54.53.54.50.M.YDN.ZDM.ERK.SIL.CPL.AI 5C2.63.XC.YC.ZD.SI.RRR.SPL.GTL.STL.CPL.AI 6Z2.7ALT.NER.CLA.NRY.NX.CLA.PHO.A.G.AAA.SC 7THA.XTA.TTA.ZTA.SCELEY.3HH.QH.SA.CA.VHX.VMY 8VHZ.6605.HRZTE.FIT.FGIT7. 6 DIN(1) = 3RV15 9NPATH.LUGGR.TLUGGR.TDAST.RSPT.INFLRT;LTHAX C C CHECK AND PRINT TRUNK SET-UP. 1EN-4 C C CHECK AND PRINT TRUNK SET-UP. 1EN-4 C C C C C C C C C C C C C C C C C C C		TRI GAM E JOT . THE TAL , RN. PPX . PPY . PPZ	75.		
3TCDMP; TANA; DECTAR; WH G: GGGXXD0; YD0; ZD 4DZG, 2S; SS; SS; SS; SP; VFC; ES; FS; SP; CFL, STL, CPL, AI  5GZ, G3; XC; YG; CZ; SJ; RRR; SR; SP; CFL, STL, CPL, AI  6 Z, ZALI, WERR; CLA, NPX; NX; CLAA, PHO; A8G, AAA, SC  7TRA, XTA; TTA; TTA; TA, SCALEY, 3MH, GH; SA, CA, VHX; VHY  8 VHZ; GGGS; HFTE; FF; TT, FG; TT,  6 DIN(1) = 3RV15  PIN(2) = 3RV15  PIN(1) = 3RV15  PIN(1) = 3RV15  PIN(1) = 3RV15  PIN(1) = 3RV61  C CHECK AND PRINT TRUNK SET-UP;  C C C C SAVE1 = STAT(PIN, POUT, CI); TEI; 4;  C C SAVE1 = COTGO  SAVES = CO		MS, ZDT GMS, MAN, M	•		
SECTOR   S		TAHA, DECTAR, VM	5, Z00, DXG, DYG,		
6 Z Z Z Z L T . HE RR . C L A . N PX . N X . C L A A . PHO. A 2 G . A A A A . S C A . N PX . N X . S C A . N PX . N Y . Y HY & V HY T & Y T A . Z T A . S C C A . V HY . L V T Y & V HY T & L Y T A . S C C A . V HY Y . V HY & V HY T & L S C C C C C C C C C C C C C C C C C C		7C. 51 - RRR. 5R. SP			
71144, X14, T14 9141, 12091, 140 6		R. CLA . NPX . NX . CL	A.SCALET.TREAL.		
C PIN(1)=37V1  PIN(1)=37V1  PIN(4)=37V1  PIN(4)=37V1  PIN(4)=37V1  PIN(4)=37V1  PIN(4)=37V1  PIN(4)=37V1  PIN(4)=37V1  C C C C C C C C C C C C C C C C C C C		ZTA, SCALEV	, VHV.		
C C CHECK A C C CHECK A DIN(1) = 38V1 PIN(2) = 38V1 PIN(3) = 38V6 PIN(4) = 38V6 C CALL PATSTA CALL PAT		168	X		
C CHECK A  PIN(1)=38V1  PIN(2)=38V1  PIN(3)=38V6  PIN(4)=38V6  CALL PATSTA  CALL PA					
PIN(1)=33V1 PIN(4)=37V1 PIN(4)=37V1 PIN(4)=37V6 PIN(4)	50	CHECK	•		
PIN(2)=3RVI PIN(4)=3RVE PIN(4)=3RVE CALL PATSTA CALL PATSTA CALL PATSTA CALL PATSTA CALL PATSTA CALL PATSTA CALCATOR SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20TGO SAVEZ=20T		PIN(1)=33V1			
PIN(3)=3RV6 PIN(4)=3RV6 LEN=4 CALL PATSTA		PIN(2)=3RV15			
CALL PATSTA  RRITE(6;100  C SAVE = 1N  SAVE = 10  SAVE		PIN(4)=3RV6J			
CALL PATSTA  RRITE(6;100  C SAVE = IN  C SAVE = VICO  SAVE = RL B  SAVE = ECOSE					
C SAVE IN C C SAVE IN C C C SAVE IN C C C C C C C C C C C C C C C C C C		PATSTA			
SAVE = FL B		MK11E10+100			
SAVEJ=XDTGO 3AVEZ=YJTGO SAVEJ=RJB SAVEJ=ZDTGO SAVEJ=ZDTGO SAVEJ=RJB SAVEZ=ZDTGO SAVEZ=ZDGOSE SAVEZ=ZMET		SAVE IN	ING PROGRAY		
SANES = XDTGO SANES = ZDTGO	0				
SANUS = 70100 SANES = 70100 SANES = 100 SANES = 100 SA					
SAVE4=RLU SAVE5=COSE SAVE7=RL SAVE7=RLU SAVE7=RLU		1			
SAVESHOUSE SAVESHER SAVESHOUSE SAVESHOUSE		SAVE4=PLB			
SAVETER					
		1			
		SAVERHURM			

74774 UPI=11 PAGE 2	RN FREID FOUITPHENT	1 000	PRE REAL TIME INITIALIZATION H=1 1=0 2=0	-1. VVE1 VVE3	1VE5 1VE5 1VE7 1VE7 1VE9 1AVE10	INITIALIZATION OF DIGITAL TO ANALOG SCALE FACTORS  DASF (1)=1,/20000.  DASF (3)=1,/20000.  DASF (4)=1,/100.  DASF (5)=1,/100.	(7)=1./200000. (5)=1./100. (10)=1./1000. (11)=1./1000. IMITALIZATION OF ANALOG TO DIGITAL SCALE FACTORS	
SUBCOULINE FLIGHT 747	SAVE11=RN C RESERVE	55	C PRE R C NPATH=1 LOOP1=0	10141111 101411111 1014111111111111111	80 COSE = SAVES 60S = SAVES 81 = SAVES 81 = SAVES 60T = SAVE9 65 THETAL=SAVETO	90 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	0.0	A005 A005 A005 A005 A005 A005 A005 A005

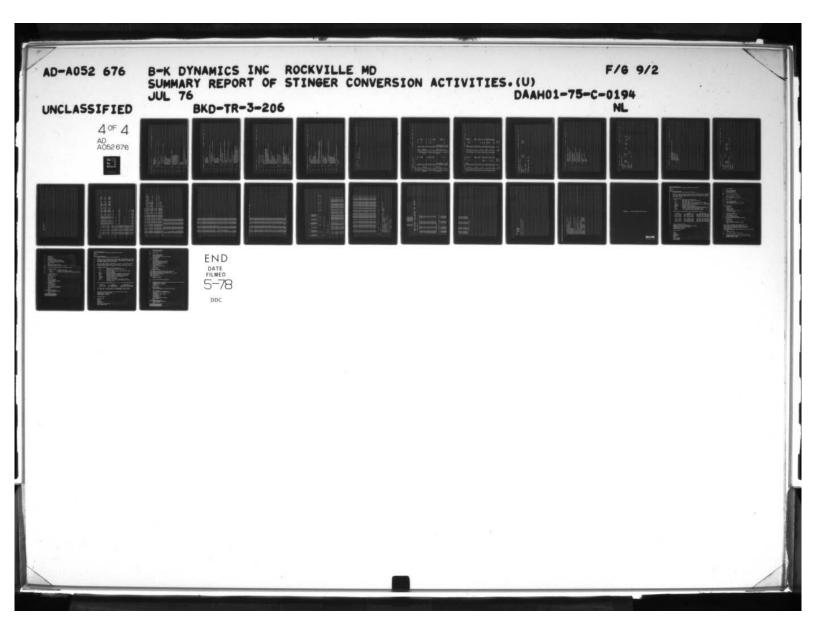
2+75348 01/12/76 14.31.35.												
2+75348												÷
 FTNH 4.2+75348	5 IS HIGH					TIME		A BAD RUN	RT A BAD RUN	GHT IS OVER		
74/74 OPT=1 M-ALL CONTROL LINES LOW	NOT PROCEED JUTIL SENSE LINE	CNVT(LARA.I) AND.32 E.0) GO TO 20 AIT FOR SENSE LINE 5 HIGH"	TAITIAL CONDITIONS TO ANALOG DACUT=XJTGOFGASF(1)	DAGUT3=20160*DASF(3) CAOUT4=RLB+0ASF(4) DADUT5=505E*DASF(5)	CACUTY = XI*OASF(7)  DAOUTS = CA*DASF(8)  DAOUTG = COT*DASF(8)  DAOUTTG = THETAL*JASF(10)  DAOUTT = THETAL*JASF(11)	SET CONTROL LINE 4 HIGH PAUSE UNTIL TIME TO ENTER REAL TIME	0 TO ENTER REAL TIME— RUN(191AT) 3000 151AT	TEST) SENSE LINE O LOM TO RESTART A BAD RUN	1 142	AND. I Q.0) GO TO 5 RN TO MAIN PROGRAM WHEN FLIGHT	400J) LOOPI & 5000) LOOPZ & 51THAX IIGOOF LIMAX	AT STATEMENTS
SUBROUTINE FLIGHT 74.774	100T=0 C 00 N C LARA=1	SL5=IIN.AND.3 SL5=IIN.AND.3 IF/SL5.HE.0) PAUSE "WAIT F 50 T0 T0	C C DACOTI=XDTGO DACOTI=XDTGO DACOTI=XDTGO	DAGUT3=27 CAOUT4=R DADUT5=C UAOUT6=S	CACUT7=R CAOUT8=G DAOUT9=E UAOUT10=	C SET	PAUS	ARITE (6, TEST C SET SENS			#RITE(5,400) L #ATTE(6,500) L LTHAX=10*LHAX #RITE(5,11000) RETURN	C FORMAT

|--|

	3U330UF	SUBSOUTINE FLIGHT	74174	0PT=1.				FTNH 4.2+75348	+75348	01/12/76	14.31.35.	PAGE	2
-	SYMBOLIC	REFERENCE	MAP (R=1)							г			
ENTRY	PUINTS									٧.			
-	FLIGHT									•			
		SN TYPE REAL	RE	RELUCATION	1	16 ADSF		REAL	ARRAY	COMM			
1620	41	REAL		COMA	1702	-		REAL		COMA			
	SLA	REAL		CONA	1605	15 CLAN	A	REAL	ARRAY	COMA		-	-
20	COSE	REAL		COMA	1443			REAL		COMA			
1641	CTL	REAL		CONA	502160	TUONO C	111	REAL					
2121	21.020	REAL			50216	i	UT3	REAL					
2163	343014	REAL			50216		013	REAL					
2155	343016	REAL			502166	1	ALA	REAL		,			
2167	043018	REAL			50217	1	010	REAL					
~	JASE	REAL	ARRAY	COMM	1160		TAR	REAL	ARRAY	COMA			
1551	3,5	REAL		A POS	1262	1		REAL		CONA	-		
1203	200	אבאר		4 7 7 7	2204	4 FC177	77	DEAL	ADDAY	4 200			
2112	200	25.87	ANGER	A POST	1674	1		1 X 3 C		LONG			
1425	7.5	REAL	*****	CONA	1426	. P. P.		REAL		COMA			
1521		REAL		COMA	4	73 GAM		REAL		COMA			
1255	999	REAL		COMA	1457	12 21		REAL		COMA			
1430	55	REAL	74004	CONA	1631	1 33		REAL		CONA			
217	1 1 1 1 1	Y. Oregin	AKKAI	4000	S. C. L.	1	ANTERN	TNIEGER					-
50400	IAUINZ	INTEGER			504003		AUIN3	INTEGER					
500+	IADING	INTEGER			20400	r	ADINS	INTEGER					
9004	IAUINE	INTEGE			20400	-:	ADINZ	INTEGER					
0125	1401118	INTEGER			51400		AUIN9	INTEGER		•			
33	THERE	INTEGER		COMM	51610	7	1	INTEGER	-				
	1213	thf EGE 4		GUMA	743	_	AT	INTEGER					
217	LARA	INTEGES		COMA	673	1 1 00P1	P.1	INTEGER		NNOO			
-2	100P2	INTEGER		KWCO		THAX	AX	INTEGER	-	CONN	-		-
211	N4F	REAL	ARRAY	COMA	19		S	REAL	*JNDEF	7			
2011	YEAT H	TATEGE	AKKAY	ANCO	1991	I NERR	×	INTEGER		4×00			
1116	11:	INTEGER		COYA	1604	1		INTEGER		COMA		-	
1617	РНО	REAL		COMA	714			INTEGER	ARRAY	-			
120	1500	INTEGER	ARKAY	4700	77	Xdc 7		REAL	ARRAY	CONA			
191	1	SEAL SEAL	AKKAT	A POLI	1666	1		DE A	ANCAN	CONA			
72	41	REAL		COMA	, 4			REAL		COMA			
1422	313K	REAL		COMA	1	1		REAL		COMA			
1430	000	PEAL		COMA	1701	•	1	REAL		COMA			
275	5.VE1	95.11			706	16 SAVE10	E10 F2	REAL					
1	100.7	35.17		-	70	1		JE AI	-			-	-
101	34765	REAL					E 6 4	REAL					
703	SAVET	REAL				1	ES	REAL					
705	S T N T S	PEAL			1423		LEP	REAL		COMA			
+	-		-	- Vacu	200	1	THE PARTY OF		-	8000	-	-	-

ARRAY	1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 - 1 -	COMA 71 SPO REAL COMA	1264 32 REAL	1266 St. REAL	COMMANDER AND COMMANDER CO	. 1623 TREAL REAL .	1216 VH REAL ARRAY	1765 VMY REAL ARRAY	COMA 1117 XCOMP REAL COMA	1256 x 00 REAL	64 XOTGO REAL	YC REAL	1328 YOY REAL MARKET	503 YOTCHS	ZALT REAL ARKAI	1121 - ZCOMP REAL	1260 200 REAL	- 66 ZDTGO REAL	COMA 1664 ZTA REAL COMA			TATORAT		00-12-1	2000 FMT 625	640 5000 FMT FMT FMT	
	RELDI							ARRAY	AKKAI	ARRAY	ARRAY	ARRAY					ARRAY	AKKAT	ARRAY		ARGS	D #					

-	SUBSOUTINE REALT	74174	0PT=1		FTNH 4.2+75348	01/12/76 14.31.39.	PAGE	-
	Suga	·	REALT					
	INTE	INTEGER. WMAN,	IAN, SL6					
	COMMONZON	SN7COMA7L	AZLEVEL TPTS XXSTS0	OX.	0,Y0160,23160,2LB,C0SE,SPO,			
	DELEGITA .	- 1	I THE I ALL SAN TO THE SAN	30.5	HAN CELEDY STACKDON INT KOOME			
	*YCOMP,ZCO	3	AMA(30), DELT	MA(30), DELTAR(30), VM(30), G, GG3, XDO, Y DO, ZOO, DXG, DYG,	x00,100,200,0x6,0Y6			
	*026,525,53	32,53,54	S5, X DR (30), Y	3H (301, ZD + (30), RLBK;	SCALEPOFICE F3,61			
-	7 F C 3 N S - 2 A C	200000000000000000000000000000000000000	FOUR LANGE	OUT OF A NOVER WE THE TOTAL OF THE STATE OF	AAAA CALETTOEAL			
	-THAC	331 . XTA . Y	TA,ZTA,SCALE	V. DAM (10) , DM, SA, CA, V	MX (50) • VMY (50) •			
	*VHZ(50) FEC	SONSTOR	17), HR7EE 117	), HR7EE (17), FI7T (9), FC177 (9)				
	MHOD	NAME ON THE	PATH, LOOP 1, L	HANDATH, LOOP1, LOOP2, DASF (11), ADSF (10), INFLRT, LTHAX	0), INFLRT, LTMAX			
15	*IADIN1.IA	IADINI IADIN	. IAUIN3.IAUI	14. IADINS . TADINS .				
	PIADIII7, TA	17. TADINS	TOAT . PNICAT.	DINIO, INDINO, IADINIO				1
	I -/ NOWWOO		DISZZIIN	10.27.27				
	NOWHOO		.04					
02	POADUTI, DA	TI,DAGUTZ	DAGUTS DAGU	OUTZ ; DAOUTS ; DAOUT 4; DADUTS ; DAOUTS.				
	*DAO	17.0AOUT8	DADUT9 DADU	110,DAOUT11		•	-	1
	/NOWNOO	9	015271001		•			
-	DATA	X	/STITITE!	,				-
25	3			•				
	C ABNORMAL		T IF SENSE L	ABORT IF SENSE LINE IS IS HIGH				
	SL 15	SLIS=IIN.AND. IF(SL15.NE.0)	AND.2**15 E-0160 TO 100					
30								
		NPATH=1 -	=1 MAITING FOR SENSE	SENSE LINE 6 TO COME	HE HIGH			
	ວບ	- Z=HIBAN	- FLIGHT IN	ROGRESS				
1		02 10 (10,20)	, ZUI , NPATH					
35			a transfer	THE PROPERTY OF THE PARTY OF TH		•		
		711111117	מו בס מכווע	S AND INDICES				
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	I-=XCX	1:					-	-
	ADSF	ADS						
45	ADSF	40SF3=40SF(2)				,		
	ADSF	AUSF8=AUSF(8)						1
	AUSF							
	NL 1=0	AUSF10=AUSF(10) NL1=0		•				
20	D=2 JN							
	NL 3=0					/		
	NL 5=0		Ų.					
	NEEST							
55	TOUT=2**1		7.					



FTNH 4.22+75348 U1/12/75 14.31.39. PAGE 2	٧.			COMPUTE VARIABLE SCALE FACTORS UNLESS THEY HAVE REACHED CONSIANCY CK.GT.0) GO TO 30		OH AMALOS		•		O STORE DATA
SUBTOUTING REALT 74774 OPIE1	C IS SLE=IIM-ANU-54 IF(SL6.ME.0) NPATH=2 CUGPTECUGPTET CALL SIMIOLE	C REAL TIME LOOP C C REAL TIME LOOP C C NMAN=0	C EOOPZ*LOJPZ*1 C REAJ TIME FROM ANALOG C OT*HAFLOTITADING ** ADSF14)	C COMPUTE VARIABLE SCALE FACTOR C COMPUTE VARIABLE SCALE FACTOR C C COMPUTE VARIABLE SCALE FACTOR C C COMPUTE VARIABLE SCALE FACTOR C C C C C C C C C C C C C C C C C C C		ADSF(18) = ADSF(3) SKK ADSF(18) = ADSF9/SKK C C C C READ REMAINING VARIABLES FROM ANALOG	В 99-D#=HHFLOT(IAUINI)*AU\$F11)  0Y=HHFLOT(IAUIN3)*AU\$F(2)  0Z=HHFLOT(IADIN3)*AD\$F(5)  XDOT=HHFLOT(IADIN6)*AD\$F(6)  ZDOT=HHFLOT(IADIN6)*AU\$F(7)  XXX = HHFLOT(IADIN9)*AU\$F(7)  XXX = HHFLOT(IADIN9)*AU\$F(8)	C STORE POSITION AND RATE	0x5=0x 0x6=0x x00=x00T x00=x00T x00=200T	C IF DX HAS REACHED A RANGE TABLE C IF(DX.LT.XXS(INDEX)) GO TO 40 PPY(INDEX)=DX PPY(INDEX)=DX
TUDE SUBSCOUL		- 59	. 70		09	50	\$6	130	109	110

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FTNH 4.2+75348 01/12/75 14.31.39. PAGE 3	k	TIME IS GREATER THAN TPRIME, CHECK-FOR MISS	IN MISSILE HAS MISSED TARGET, STORE THE ASSOCIATED VALUES			IF TARGET TRAJECTORY TABLE HAS BEEN EXCEEDED OR TARGET MAHEUVER HAS NOT YET BEGUN, ENJ LOOP EVEL.GT.0), CALL SIMIDLE IT.LT.TS(1)) CALL SIMIDLE	GULTION IN TARGET IRAJECTORY TABLE FOR INTERPOLATION	S(IT2)) GO TO 70	THIS LOOP  SIMIDLE	OLATE TARGET HANEUVER  )-TS (IT1)  TS (IT1) / OLV  HS (IT1) + ANTIO* (XOTGHS (IT1))	)+RATIO*(KUM(IT2)-XDM(IT1)) HS(ITIFRATIO*(YUM(IT2)-YDTGHS(IT1)) 1-RATIO*(YUM(IT2)-YDH(IT1)) HS(IT1)+RATIO*(ZUM(IT2)-ZUM(IT1)) HS(IT1)+RATIO*(ZUM(IT2)-ZUM(IT1))	ATION OF TARGET INERTIAL VELOSITY
E REALT 74/74 OPF=1	PPZ (INDEX)=DZ	G IF TIME IS GREATE	HISS		HISSEU(5) = 700T HISSEU(6) = 200T HISSEU(7) = HISSE 60 TU 100	C NAME UVER HAS NOT YET BEG C NAME UVER HAS NOT YET BEG C 50 IF (LEVEL. 61.0) CALL SIMIOLE IF (DT.LT.TS(1)) CALL SIMIOLE	LEVEL=0  FIND POSTTON IN  G 60 ITZ=ITI+1	17 TO	LEVE	C INTERPOLATE TAKEE C 70 LIVET S(IT2) - TS(IT1) / OI RATIO = (JT-15(IT1) / OI RATIO = (JT-15(IT1) / OI	XC=XDH(1T1) YC=YDTG YC=YDH(IT1) ZCGMP=ZDTG ZC=ZDH(IT1)	C COMPUTATION OF TA
SUBROUTINE REALT	115	120	521	130	135	P52	145	150	155	160	165	

UNI=1 UNI 4-2473340 UNIXE(16 14-31-33- PAGE +XC+YC+YC+YC+Z-2(-2)	ICOPTER	COMPUTATION OF COSE	ARA=:003394*ZALT+1115.69 2H=VII/AAA 2H=VII/AAA CALL LINTRP(QM-2MM-GLAA,NX,NL1,RA1,GLA,NER1) CALL-LINTRP(OT,TMA,XE;NT;NL2,RA2;XTA;NER2) CALL LINTRP(OT,TMA,YE;NT,NL2,RA2;XTA;NER2)	.2E.	RFEVITERFET RRAVITERFET RRAVITERFET F1=52**xxx=SPL**xx F2=52**xxx=SPL**xx F3=51C*225-51L**xx F3=51C**xx	\$1=\$4(\$4\\$R)*\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$1\cd{6}=\$	COMPUTATION OF RN 50 TO 75	CALL LINTRP(COSE.ECOS.HR7E.NX.NLS.RAS.HR7E.NERS)  TEMP==2.341*ALOG(RFEET/22965.831)  HG7FT=1209.675*EXP(TEMP)*HR7E  PZ1RS3=2.841AN1.57RLB)  PZ1RS3=2.841AN1.57RLB)  PZ1RS3=2.841AN1.57RLB)  TEMPU=511RS3+PZ1RS3**2  TEMPU=511RS3+PZ1RSS**2  AT7=TEMPU/TEMPU	PJIU1=:XP 11.003258*ALOG(AT7))/10. FIZ=HGFFTAPJIUI CALL LIMIRP (FIZ,FIZT,FCIZZ,NX,NLS;RAG;FCIZ,NERS) CALL LIMIRP (FIZ,FIZT,FCIZZ,NX,NLS;RAG;FCIZ,NERS) COMFINUE
SUSCOULNE KEALT	999	2 081	247	190 TEP		000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000 000		220 CAL	114

	COMPUTATION OF SPO					
2 30						
	PCD=ACOS(RCI) RCx=-RCI					
2.35	ZCY=-SIN(RCB)  IF(F1.GE.0) RCY=-RCY	•				
	F22= (F3*G1-F1*G3) /VI					
	FOUR TENENT THE TARGET TO THE					
240	611=F11*2CX					
	7111= (611+622)7F3R	3				
	IF (F33.LT.0.) TRP=1.570796326-1111					
24.5	36	.0.).aND.(T111.LE.1.57079525)) TRP=1.570795326+T111 .0.).aND.(T111.6T.1.570795326)) TRP=T111-4.71235898				
-	SPO=TRP		-			
	C STORE TARGET DATA IF A RANGE	TARGET DATA IF A RANGE TABLE ENTRY WAS REACHED THIS LOOP	900			
230	80 IF (MMAN, EQ. 0) GO TO 90					
	IF (I 40EX : GT - 50 ) 30 TO 90			100		
	MARICIAINDEX) = DI				2	
555	MAHIG 3, INDEX) = YCOMP			•		
	HAR (4-INDEX)=ZCO4P INDEX=INDEX+1					
	IF (INDEX.GT.IPTS) GO TO 100					
260		IF DATA COLLECTION IS NOT COMPLETE. SEND VARIABLES TO ANALOG AND END THIS LOOP	9			
	98 DADUFT=KEG					
265						
	DADUTGERLB-DASF (4)					
	040UT11=210+04SF(5)					
270	LTC=200-STAT (MASK)					
	CALL CIVILIAN LIBANILL					1
	2000					
275	C SET CONTROL LINE 7 HIGH AND TERMINATE REAL TIME	TERMINATE REAL TIME				
	CALL SINSTOP					
	013.					

FINH 4.22+75348 01/12/75 14.31.559. PAGE 5											•		
SUBROJIVE REALT 74/74 UPT#1	CARD NR. SEVERITY SETAILS DIAGNOSIS OF PROBLEM				12						٠,		

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MAP (R=1)	0576/+N** HNI-	1	ADSF REAL ARRAY	TO REAL		CPL REAL	P 22		1	REAL	37 REAL	200			3 REAL	G1 REAL COMA			INTEGER	IPTS INTEGER COMA	INTEGER	INTEGER	INTEGER	INTEGER	
# (RE)				-	1702	1443	502171	502163	502167	[	-	2131	1013	1011				5040405	514000	30		4	11		111
	74.774 P (R=1)		RECOU																						

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FTNH 6.2+75346 01/12/76: 14.31.39. PAGE 9	46 20 205 50 430 75 552 100			
SUBSCOUTINE REALT 74/74 OPT=1	LS NO TYPE	COMM 1165 COMM 26 STATISTICS PROGRAM LENGTH 10228 530 CM LASELED COMMON LENGTH 22478 1191		

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PAGE 2											
01/12/76 14-31.47-			30								
FINH 4.2+75346		INTEGER REAL REAL ARRAY REAL ARRAY	37	•							
06 r=1		RELOCATION  F.P. 0 NL F.P. 0 AA F.P. 0 XA	24 20 24 20 26 80	. 29		,				4	
INE LINTRP 74774	SYMBOLIC REFERENCE MAP (R=1)	SN TYPE INTEGER INTEGER REAL REAL	BELS	истн 768			-		· A	4	
No Suud Ou	SYMBOL	VARIAGLES  O NEPR  O N	20 10 20 10 43 40 71 70	STATISTICS PROGRAH LENGTH			4 <u>.</u> t				

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ENTRY POINTS 4 HRFLOT VARIABLES SN TYPE RELOCATION 23 CONVRT REAL 27 ISON INTEGER 22 IVLHSK INTEGER 22 IVLHSK INTEGER 22 IVLHSK INTEGER 24 IVLHSK INTEGER 25 IVLHSK INTEGER 26 IVLHSK INTEGER 27 ISON INTEGER 27 ISON INTEGER 28 IVLHSK INTEGER 29 IVLHSK INTEGER 20 IVLHSK INTEGER 20 IVLHSK INTEGER 20 INTRIN 318 25 PROGRAM LENGTH 318 25	25 HWFL 0T 26 INTER 24 ISMSK 30 REAL		
SN TYPE RECOCATION REAL INTEGER INTEGER INTEGER INTEGER SOUTH SINTRIN LS TYPE ARGS INTRIN LS TYPE ARGS TYPE 2 INTRIN LS TYPE	HWFLOT INTER ISMSK REAL 30MPL		
SN TYPE RECOGATION REAL INTEGER INTEGER INTEGER NS TYPE 2 INTRIN LS TYPE 2	HWFLOT INTER ISMSK REAL 30MPL		
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		ДИИ (0) - REAL T (1.)  СОМА-СОМИ
		10
		07
	END	RTREE MAIN(0), REALT(1) GLOBAL COMA; COM
	ברסמיור החודי החוד	RTREE MAIN(0), REALT(1) GLOBAL COMM; COMM END
	END END	RTREE MAIN(0), REALT(1) GLOBAL COMB, COMM END
		RTREE MAIN(0), REALT(1)
COMA, COMM  COMA, COMM		

Leon	COMB EXTRA				
10055 HANEUV BLOCKS HANEUV BLOCKS HANEUV BLOCKS HANEUV BLOCKS HANEUV BLOCKS GOMA BLOCKS TOCON.  10055 TOCON.  10055 TOCON.		CHODOOIS HANEUV	JV CHOIDS34 -	GTARG	CH000013
91.00KS HANEUV 01.00KS COHA 10.00KS COHA 10.00KS COHA 10.00KS COHA 10.00KS COHA 10.00KS COHA 10.00KS HISD 10.00KS LOCON.	DEL	000454 COHD			
BLOCKS TOCON.  BLOCKS HANEUV BLOCKS ANG BLOCKS ANG BLOCKS ANG BLOCKS HISD BLOCKS HISD BLOCKS HISD BLOCKS HISD BLOCKS HISD BLOCKS TOCON. BLOCKS TOCON. BLOCKS TOCON. BLOCKS TOCON.	20	1	1		
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81.05.5 COHP 81.05.5 COHP 81.05.5 COHA 81.05.5 COHA 81.05.5 HISD 81.05.5 HISD 81.05.5 COHP 81.05.5 COHA 81.05.5 COHA 81	HISS	100 00 16 HANEUV	CH0000111	DELT	CHOOOLS
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BLOCKS 48.10.  BLOCKS 10CON. BLOCKS 10CON.  BLOCKS 10.8UF.	CONN	CH000032			
8LOCKS 48.10. 8LOCKS 10CON. 8LOCKS 10CON. 3LOCKS 10.8UF.					
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BLOCKS TOCON. BLOCKS TOCON. BLOCKS TO BUF.					
alocks locon.  alocks locon.	08.10.	1000134			
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atocks 10:80F.					
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GET F 1 = [ = ( ) ] 0 34	43.10.	CH000134			
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L=300362 3C0CKS	.NOCOI	CM000042			
= L = 0004 14 BLOCKS 1000N.	48.10	CH000134			-

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PROCRAM INCOM-	-	PROSRAM OPEN. SY	710	PENERGH TILLY		PROGRAM SYS. 2H	PROGRAM BIRL SO		PROGRAN CHAR:ST		1	1		PROGRAM OPEX PROGRAM CLSF	1	1	PROGRAM WAR-SQ	SEGMENT MAIN	PRO	P20	THREE PRO	P30		w	PRINE PRO		INTERP PAGE		ACOSIN= PRO	SORT PRO	001C= PRO			SIMSUN PRO	RESERVE PRO			,	GETFITE PRO
N= L=003255	-	1.37 L=000235		231 [= 0.000.23	Z.5Q L=003101	.54 L=000047	1.53 L=030210	34 L=000777	EN 1=000007	1	1.84 L=000067	CLSV . SO L=000131	1 (=000030	CLSF.53 L*000131	MOVE: RM L=000054	L=00011	33 L=000256	FWA	. E	PROGRAM + 0125 PROGRAM + 0125	PROGRAM + 0125		PROGRAM +0143				PAGGAAN + U1/0		PROGRAM +0210 PROGRAM +0211	PROGRAM +0213	-			PROGRAM + 0226 PROGRAM + 0226	PROGRAM + 0226		PROGRAM +0227		PROGRAM + UZ33
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48.10.		A00. RM	DPES.FO		AOB.RH	A08.2M	AGB-RH		1		ADB. RM	-		•	A00.RM		A0B.RM	104	0011417	0000000	0000000	2190000	0000056	2920000	00000435	0000321	402000	5490000	00000113	9000000	0000165	3000164	0000000	0000016	0000012	0000023	0000001	0000345	95000
CHC00134		CM630013	CHOODOOT	Z TOOLONG.	CM000010	CH000010	CHOOODIO	CHOOODID	CM000010	CHOODOID	CM000010-	CM000010		CH000010	CH000010	CM000010	CM000010	EXEC.FWA=																					
IOCON.		CON.RH	OPEN.FO		CON.RM	CON. RM	CONSEN		COM. RM	CON.RM	1	CON-RM		CON. RM	CON. RM	CON.RM	CON.RM	+001100+													-		•						
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		JAPS.RH	1	0	GET.RI	SKFL.FO	CFT. RT	GET.FO	-			JHPS.RH		JHPS.RH	PUT.RT	GET.RT	-	+050731													-								
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СОННОП + 034214   СОННОП + 034214   СОННОП + 034237   СОННОП + 034237   СОННОП + 034237   СОННОП + 034237   СОННОП + 034245   СОННОП + 034245   СОННОП + 034245   СОННОП + 034245   СОННОП + 034215   СОННОП + 035551   СОННОП + 035551   СОННОП + 035551   СОННОП + 035551   СОННОП + 035551	CONNON + 034214 CONNON + 034214 CONNON + 034256 CONNON + 035256	COMMON + 034216 COMMON + 034226 COMMON + 034256 COMMON + 034710 COMMON + 035401 COMMON + 035401 COMMON + 035401 COMMON + 035651	COMMON + 034254 COMMON + 034253 COMMON + 035403	CONNON + 034214 CONNON + 034237 CONNON + 034242 CONNON + 034237 CONNON + 034242 CONNON + 034262 CONNON + 034262	COMMON + 034216 COMMON + 034242 COMMON + 034242 COMMON + 034242 COMMON + 034256 COMMON + 034256 COMMON + 034256 COMMON + 03470 COMMON + 03470 COMMON + 035401 COMMON + 035401
COMMON + 034213 COMMON + 034226 COMMON + 034226 COMMON + 034226 COMMON + 034245 COMMON + 034245 COMMON + 034245 COMMON + 034245 COMMON + 034546 COMMON + 034546 COMMON + 034511 COMMON + 035655	COMMON + 034213 COMMON + 034214 COMMON + 034216 COMMON + 034256 COMMON + 035266 COMMON + 035266	COMMON + 034213 COMMON + 034226 COMMON + 034226 COMMON + 034226 COMMON + 034255 COMMON + 034255 COMMON + 034702 COMMON + 035407 COMMON + 03551	CONTON + 034213 CONNON + 034224 CONNON + 034224 CONNON + 034243 CONNON + 034243 CONNON + 034243 CONNON + 034243 CONNON + 034245 CONNON + 034265 CONNON + 034506 CONNON + 034506 CONNON + 035651	CONTON	COMMON + 034213 COMMON + 034226 COMMON + 034226 COMMON + 034226 COMMON + 034255 COMMON + 034255 COMMON + 034255 COMMON + 034702 COMMON + 034501 COMMON + 035501
COMMON + 034213 COMMON + 034214 COMMON + 034226 COMMON + 034237 COMMON + 034237 COMMON + 034245 COMMON + 034245 COMMON + 034504 COMMON + 034504 COMMON + 034504 COMMON + 035551 COMMON + 035551 COMMON + 035655 COMMON + 035655 COMMON + 035655	COMMON + 034213 COMMON + 034214 COMMON + 034226 COMMON + 034226 COMMON + 034237 COMMON + 03527 COMMON + 03527 COMMON + 03527	COMMON + 034213 COMMON + 034214 COMMON + 034226 COMMON + 034256 COMMON + 034256 COMMON + 034256 COMMON + 034256 COMMON + 034266 COMMON + 034266 COMMON + 034266 COMMON + 034506 COMMON + 035610 COMMON + 035651 COMMON + 035651	COMMON	COMMON + 034213 COMMON + 034213 COMMON + 034226 COMMON + 034226 COMMON + 034237 COMMON + 034237 COMMON + 034226 COMMON + 035655	COMMON + 034213 COMMON + 034213 COMMON + 034214 COMMON + 034237 COMMON + 034256 COMMON + 035655
CONHON + 034204 CONHON + 034214 CONHON + 034215 CONHON + 034225 CONHON + 034225 CONHON + 034225 CONHON + 034225 CONHON + 034255	CONHON + 034204 CONHON + 034213 CONHON + 034213 CONHON + 034226 CONHON + 034226 CONHON + 034226 CONHON + 034226 CONHON + 034256 CONHON + 034256 CONHON + 034256 CONHON + 034256 CONHON + 034255 CONHON + 034256 CONHON + 034256 CONHON + 034256 CONHON + 034255 CONHON + 034256 CONHON + 034256 CONHON + 034256 CONHON + 035265	CONHON + 034204 CONHON + 034214 CONHON + 034217 CONHON + 034226 CONHON + 034256 CONHON + 034511 CONHON + 035407 CONHON + 035511 CONHON + 03551	CONHON + 034204 CONHON + 034214 CONHON + 034215 CONHON + 034226 CONNON + 034256 CONNON + 034256 CONNON + 034256 CONNON + 034566 CONNON + 035617	COMMON + 034204 COMMON + 034213 COMMON + 034217 COMMON + 034226 COMMON + 034216 COMMON + 034216 COMMON + 034216	CONTON + 034204 CONTON + 034214 CONTON + 034214 CONTON + 034226 CONTON + 034256 CONTON + 03560
COMMON + 034204 COMMON + 034214 COMMON + 034226 COMMON + 034266 COMMON + 034666 COMMON + 035651	COMMON + 034204 COMMON + 034214 COMMON + 034226 COMMON + 034226 COMMON + 034226 COMMON + 034226 COMMON + 034245 COMMON + 034246 COMMON + 034266 COMMON + 034266 COMMON + 034266 COMMON + 034506	CONNON +034204 CONNON +034213 CONNON +034214 CONNON +034226 CONNON +034255 CONNON +034715 CONNON +034715 CONNON +03551	CONNON + 034204 CONNON + 034213 CONNON + 034214 CONNON + 034226 CONNON + 034226 CONNON + 034255 CONNON + 035251	CONNON + 034204  CONNON + 034213  CONNON + 034213  CONNON + 034214  CONNON + 034224  CONNON + 034224  CONNON + 034234  CONNON	CONNON + 034204 CONNON + 034214 CONNON + 034214 CONNON + 034226 CONNON + 034255
COMMON + 034217 COMMON + 034214 COMMON + 034214 COMMON + 034226 COMMON + 034226 COMMON + 034226 COMMON + 034226 COMMON + 034246 COMMON + 034246 COMMON + 034246 COMMON + 034246 COMMON + 034246 COMMON + 034246 COMMON + 034266 COMMON + 034266 COMMON + 034266 COMMON + 034266 COMMON + 034566 COMMON + 0342715 COMMON + 035651	COMMON + 034217 COMMON + 034213 COMMON + 034213 COMMON + 034213 COMMON + 034213 COMMON + 034225 COMMON + 034255 COMMON + 035255 COMMON + 035255	COMMON + 034217 COMMON + 034214 COMMON + 034214 COMMON + 034226 COMMON + 034226 COMMON + 034256 COMMON + 034256 COMMON + 034256 COMMON + 034256 COMMON + 034257 COMMON + 035471 COMMON + 035471 COMMON + 035407 COMMON + 03557 COMMON + 03567	COMMON + 034179 COMMON + 034214 COMMON + 034213 COMMON + 034213 COMMON + 034256	COMMON + 034217 COMMON + 034214 COMMON + 034214 COMMON + 034214 COMMON + 034214 COMMON + 034216 COMMON + 034216 COMMON + 034226 COMMON + 032226 COMMON	COMMON + 034175 COMMON + 034214 COMMON + 034214 COMMON + 034215 COMMON + 034255
COMMON + 034217 COMMON + 034213 COMMON + 034213 COMMON + 034213 COMMON + 034217 COMMON + 034224 COMMON + 034246 COMMON + 034266 COMMON + 035651	COMMON + 034217 COMMON + 034213 COMMON + 034213 COMMON + 034217 COMMON + 034217 COMMON + 034226 COMMON + 034226 COMMON + 034266 COMMON + 034266	COMMON + 034216 COMMON + 034217 COMMON + 034217 COMMON + 034216 COMMON + 034226 COMMON + 034226 COMMON + 034255 COMMON + 034255 COMMON + 034266 COMMON + 034266 COMMON + 034702	COMMON + 034217 COMMON + 034213 COMMON + 034213 COMMON + 034224 COMMON + 034224 COMMON + 034225 COMMON + 034225 COMMON + 034225 COMMON + 034255 COMMON + 034255 COMMON + 034255 COMMON + 034255 COMMON + 034255 COMMON + 034265 COMMON + 034265	COMMON + 034517 COMMON + 034213 COMMON + 034213 COMMON + 034213 COMMON + 034214 COMMON + 034214 COMMON + 034245 COMMON + 03424 COMMON + 03424 COMM	COMMON + 034217 COMMON + 034213 COMMON + 034214 COMMON + 034214 COMMON + 034215 COMMON + 034255 COMMON + 034565 COMMON + 034565 COMMON + 034565 COMMON + 034565
CONHON + 034164 CONHON + 0341213 CONHON + 034213 CONHON + 034214 CONHON + 034214 CONHON + 034214 CONHON + 034214 CONHON + 034237 CONHON + 034245 CONHON + 034565 CONHON + 034566 CONHON + 034566 CONHON + 034566 CONHON + 035561 CONHON + 035561 CONHON + 035655 CONHON + 035655 CONHON + 035655	CONHON + 034164 CONHON + 034123 CONHON + 034213 CONHON + 034214 CONHON + 034214 CONHON + 034214 CONHON + 034215 CONHON + 034245 CONHON + 034265 CONHON + 034266 CONHON + 034566 CONHON + 035565	CJMMON + 034164 CJMMON + 034213 CJMMON + 034213 CJMMON + 034213 CJMMON + 034225 CJMMON + 034255 CJMMON + 035471 CJMMON + 035407 CJMMON + 035471 CJMMON + 035571 CJMMON + 0355755	CONHON + 034124 CONHON + 034124 CONHON + 034234 CONHON + 034234 CONHON + 034235	CONNON + 034164 CONNON + 034213 CONNON + 034213 CONNON + 034213 CONNON + 034213 CONNON + 034214 CONNON + 034217 CONNON + 034237 CONNON + 034237 CONNON + 034245 CONNON + 034245 CONNON + 034245 CONNON + 0342710 CONNON + 0342710 CONNON + 034286	CONHON + 034164 CONHON + 034213 CONNON + 034213 CONNON + 034213 CONNON + 034213 CONNON + 034256 CONNON + 0354710 CONNON + 0354710 CONNON + 0354710 CONNON + 0354710
COMMON + 034155 COMMON + 034156 COMMON + 034216 COMMON + 034216 COMMON + 034216 COMMON + 034216 COMMON + 034225 COMMON + 034225 COMMON + 034256 COMMON + 034256 COMMON + 034256 COMMON + 034255 COMMON + 034256 COMMON + 0355655	COMMON + 034155 COMMON + 034156 COMMON + 034214 COMMON + 034214 COMMON + 034214 COMMON + 034215 COMMON + 034256 COMMON + 034255	COMMON + 034155 COMMON + 034164 COMMON + 034214 COMMON + 034214 COMMON + 034214 COMMON + 034215 COMMON + 034255 COMMON + 034256 COMMON + 034256 COMMON + 034256 COMMON + 034704	COMMON + 034155 COMMON + 034164 COMMON + 034213 COMMON + 034214 COMMON + 034214 COMMON + 034225 COMMON + 034225 COMMON + 034255 COMMON + 034255 COMMON + 034255 COMMON + 034265 COMMON + 034265 COMMON + 034265 COMMON + 034265 COMMON + 034565	COMION + 034155  COMMON + 034164  COMMON + 034213  COMMON + 034226  COMMON + 034237  COMMON + 034246  COMMON + 034246  COMMON + 034247  COMMON	COMMON + 034155 COMMON + 034156 COMMON + 034213 COMMON + 034214 COMMON + 034215 COMMON + 034226 COMMON + 034226 COMMON + 034256 COMMON + 034711 COMMON + 034511
COMMON +034155 COMMON +034204 COMMON +034204 COMMON +034217 COMMON +034217 COMMON +034217 COMMON +034226 COMMON +034226 COMMON +034226 COMMON +034226 COMMON +034266 COMMON +034266 COMMON +034506 COMMON +034506 COMMON +034506 COMMON +034506 COMMON +035551 COMMON +035551	COMMON + 034155 COMMON + 034204 COMMON + 034204 COMMON + 034204 COMMON + 034226	CONHON + 034155 CONHON + 034204 CONHON + 034214 CONHON + 034214 CONHON + 034214 CONHON + 034214 CONHON + 034226 CONHON + 034226 CONHON + 034226 CONHON + 034226 CONHON + 034237 CONHON + 034265 CONHON + 034265 CONHON + 034506	COMMON	COMMON + 034155 COMMON + 034204 COMMON + 034204 COMMON + 034215 COMMON + 034226 COMMON + 03422	CONHON + 034155 CONHON + 034204 CONHON + 034214 CONHON + 034214 CONHON + 034214 CONHON + 034214 CONHON + 034226 CONHON + 034237 CONHON + 034246 CONHON + 034266 CONHON + 034237 CONHON + 034266 CONHON + 034267
COMMON + 034159 COMMON + 034159 COMMON + 034213 COMMON + 034213 COMMON + 034213 COMMON + 034213 COMMON + 034226 COMMON + 034245 COMMON + 034246 COMMON + 034246 COMMON + 034266 COMMON + 034266 COMMON + 034266 COMMON + 034566 COMMON + 0345666 COMMON + 034566 COMMON + 0345666 COMMON + 0345666 COMMON + 0345666 COMMON + 0345666 COMMON + 035561	COMMON + 034159 COMMON + 034159 COMMON + 0342179 COMMON + 034213 COMMON + 034213 COMMON + 034213 COMMON + 034229 COMMON + 034229 COMMON + 034259	COMMON + 034150 COMMON + 034164 COMMON + 034175 COMMON + 034214 COMMON + 034214 COMMON + 034226 COMMON + 034226 COMMON + 034256	COMMON + 034150 COMMON + 034150 COMMON + 034175 COMMON + 034214 COMMON + 034216 COMMON + 034226 COMMON + 034256	COMMON + 034159 COMMON + 034159 COMMON + 034213 COMMON + 034226 COMMON + 034226 COMMON + 034226 COMMON + 034226 COMMON + 034237 COMMON + 034226 COMMON + 032237 COMMON + 035252	COMMON + 034150 COMMON + 034164 COMMON + 034175 COMMON + 034214 COMMON + 034215 COMMON + 034226 COMMON + 034256 COMMON + 034257
CONHON + 034159 CONHON + 034159 CONHON + 034159 CONHON + 034213 CONHON + 034213 CONHON + 034213 CONHON + 034213 CONHON + 034256 CONHON + 034566 CONHON + 034566 CONHON + 034566 CONHON + 035651	CONHON + 034155 CONHON + 034156 CONHON + 034214 CONHON + 034214 CONHON + 034214 CONHON + 034215 CONHON + 034215 CONHON + 034216 CONHON + 034256	CONHON +034156 CONHON +034156 CONHON +034156 CONHON +034214 CONHON +034214 CONHON +034214 CONHON +034215 CONHON +034255 CONHON +034566	CONHON +034156 CJMHON +034157 CJMHON +034157 CJMHON +034217 CJMHON +034217 CJMHON +034217 CJMHON +034217 CONHON +034227 CJMHON +034227 CJMHON +034225 CJMHON +034225 CJMHON +034255 CJMHON +034255 CJMHON +034255 CJMHON +034255 CJMHON +034265 CJMHON +034566 CJMHON +034566 CJMHON +034566 CJMHON +034566 CJMHON +035517 CJMHON +035517 CJMHON +035517	CONHON + 034159  CONHON + 034159  CONHON + 034159  CONHON + 034214  CONHON + 034215  CONHON + 034216  CONHON + 034216  CONHON + 034216  CONHON + 034216  CONHON + 034256  CONHON	CONHON + 034155 CONHON + 034156 CONHON + 034213 CONHON + 034214 CONHON + 034214 CONHON + 034215 CONHON + 034215 CONHON + 034216 CONHON + 034255 CONHON + 034514 CONHON + 034511 CONHON + 034511 CONHON + 034511 CONHON + 034511
COMMON + 034154 COMMON + 034156 COMMON + 034156 COMMON + 034204 COMMON + 0342175 COMMON + 034226 COMMON + 034266 COMMON + 034504 COMMON + 034504 COMMON + 034506 COMMON + 035551	COMMON + 034154 COMMON + 034156 COMMON + 034164 COMMON + 0342175 COMMON + 0342175	COMMON + 034150 COMMON + 034150 COMMON + 034150 COMMON + 034204 COMMON + 034217 COMMON + 034217 COMMON + 034217 COMMON + 034250	COMMON + 034150  COMMON + 034150  COMMON + 034150  COMMON + 034204  COMMON + 034217  COMMON + 034250	COMMON + 034150 COMMON + 034150 COMMON + 034150 COMMON + 034204 COMMON + 034214 COMMON + 034214 COMMON + 034214 COMMON + 034214 COMMON + 034226 COMMON + 034226 COMMON + 034214 COMMON + 034226	COMMON + 034159 COMMON + 034159 COMMON + 034159 COMMON + 034214 COMMON + 034214 COMMON + 034216 COMMON + 034226 COMMON + 034226 COMMON + 034226 COMMON + 034256 COMMON + 034256 COMMON + 034266
CONHON	COMMON + 034150 COMMON + 034150 COMMON + 034150 COMMON + 034150 COMMON + 034236	COMMON + 034150 COMMON + 034150 COMMON + 034150 COMMON + 034214 COMMON + 034214 COMMON + 034214 COMMON + 034226 COMMON + 034256 COMMON + 034257 COMMON + 034257 COMMON + 034255 COMMON + 034257 COMMON + 034257 COMMON + 034257 COMMON + 034255 COMMON + 034257 COMMON + 034257 COMMON + 034257 COMMON + 034255 COMMON + 034257 COMMON + 034257 COMMON + 034257 COMMON + 034255 COMMON + 034257 COMMON + 034257 COMMON + 034257	COMMON + 034150 COMMON + 034150 COMMON + 034150 COMMON + 034155 COMMON + 034213 COMMON + 034213 COMMON + 034213 COMMON + 034255	COMMON + 034150 COMMON + 034150 COMMON + 034150 COMMON + 034125 COMMON + 034217 COMMON + 03421	COMMON + 034150 COMMON + 034150 COMMON + 034150 COMMON + 034213 COMMON + 034213 COMMON + 034213 COMMON + 034250 COMMON + 034255
COMMON + 034151 COMMON + 034151 COMMON + 034154 COMMON + 034154 COMMON + 034154 COMMON + 034154 COMMON + 034214 COMMON + 034214 COMMON + 034215 COMMON + 034215 COMMON + 034255	COMMON + 034150 COMMON + 034150 COMMON + 034150 COMMON + 034150 COMMON + 034214 COMMON + 034214 COMMON + 034214 COMMON + 034216 COMMON + 034250	COMMON + 034151 COMMON + 034151 COMMON + 034151 COMMON + 034155 COMMON + 034214 COMMON + 034214 COMMON + 034215 COMMON + 034256 COMMON + 034256 COMMON + 034256 COMMON + 034256 COMMON + 034715 COMMON + 035551	СОННОИ + 034151 СОННОИ + 034151 СОННОИ + 034151 СОННОИ + 034214 СОННОИ + 034255 СОННОИ + 034255 СОННОИ + 034255 СОННОИ + 034265 СОННОИ + 034265 СОННОИ + 034265 СОННОИ + 034265 СОННОИ + 034565 СОННОИ + 034565 СОННОИ + 034565 СОННОИ + 034566	СОННОИ + 034151 СОННОИ + 034151 СОННОИ + 034151 СОННОИ + 034215 СОННОИ + 034215 СОННОИ + 034216 СОННОИ + 034217 СОННОИ + 034217 СОННОИ + 034217 СОННОИ + 034217 СОННОИ + 03425 СОННОИ + 03425 СОН	СОННОИ + 034151 СОННОИ + 034151 СОННОИ + 034151 СОННОИ + 034175 СОННОИ + 034214 СОННОИ + 034211 СОННОИ + 03425 СОННОИ + 034211 СОННОИ + 034256 СОННОИ + 034256 СОННОИ + 034211 СОННОИ + 034256 СОННОИ + 034256
COMMON + 034132 COMMON + 034156 COMMON + 034156 COMMON + 034204 COMMON + 034214 COMMON + 034214 COMMON + 034217 COMMON + 034217 COMMON + 034266	COMMON + 034132 COMMON + 034145 COMMON + 034165 COMMON + 034214 COMMON + 034217	COMMON + 034132 COMMON + 034155 COMMON + 034155 COMMON + 034164 COMMON + 034213 COMMON + 034225 COMMON + 034225 COMMON + 034255 COMMON + 034265 COMMON + 034565 COMMON + 034565 COMMON + 034565	COMHON + 034132 COMHON + 034145 COMHON + 034156 COMHON + 034166 COMHON + 034213 COMMON + 034213 COMMON + 034213 COMMON + 034226 COMHON + 034237 COMHON + 034256 COMHON + 034256 COMHON + 034266	COMHON + 034132 COMHON + 034156 COMHON + 034156 COMHON + 034166 COMHON + 034214 COMHON + 034216 COMHON + 034214 COMHON + 034216 COMHON + 034266	COMHON + 034132 COMHON + 034145 COMMON + 034156 COMMON + 034164 COMMON + 034213 COMMON + 034214 COMMON + 034216 COMMON + 034226 COMMON + 034255 COMMON + 034266 COMMON + 034567 COMMON + 034566 COMMON + 034566 COMMON + 034566
COMMON + 034135 COMMON + 034156 COMMON + 034156 COMMON + 034156 COMMON + 034213 COMMON + 034214 COMMON + 034214 COMMON + 034214 COMMON + 034215 COMMON + 034214 COMMON + 034211	COMMON +034132 COMMON +034155 COMMON +034155 COMMON +034155 COMMON +034155 COMMON +034213	COMMON +034132 COMMON +034156 COMMON +034156 COMMON +034156 COMMON +034216 COMMON +034216 COMMON +034216 COMMON +034216 COMMON +034266	COMMON	COMMON + 034132 COMMON + 034155 COMMON + 034155 COMMON + 034155 COMMON + 034213	COMMON +034132 COMMON +034156 COMMON +034156 COMMON +034156 COMMON +034216 COMMON +034216 COMMON +034216 COMMON +034216 COMMON +034266
COMMON + 034121 COMMON + 034132 COMMON + 034132 COMMON + 034134 COMMON + 034136 COMMON + 034214 COMMON + 034256 COMMON + 03425	COMMON + 034121 COMMON + 034132 COMMON + 034132 COMMON + 034134 COMMON + 034134 COMMON + 034136 COMMON + 034213 COMMON + 034256	COMMON + 034121 COMMON + 034151 COMMON + 034156 COMMON + 034156 COMMON + 034216 COMMON + 034216 COMMON + 034216 COMMON + 034216 COMMON + 03426 COMMON + 034511	COMMON + 034121 COMMON + 034150 COMMON + 034150 COMMON + 034150 COMMON + 034214 COMMON + 034216	COMMON + 034122 COMMON + 034132 COMMON + 034234 COMMON + 03423	COMMON + 034121 COMMON + 034151 COMMON + 034154 COMMON + 034156 COMMON + 034216 COMMON + 034256
COMMON + 034121 COMMON + 034150 COMMON + 034216 COMMON + 034217 COMMON + 034213 COMMON + 034213 COMMON + 034213 COMMON + 034213 COMMON + 034250 COMMON + 034255 COMMON + 034250 COMMON + 034250 COMMON + 034250 COMMON + 034255 COMMON + 034250 COMMON + 034250 COMMON + 034250 COMMON + 034255	COMMON + 034121 COMMON + 034150 COMMON + 034214 COMMON + 034214 COMMON + 034213 COMMON + 034214 COMMON + 034256 COMMON + 034255 COMMON + 034256 COMMON + 034256 COMMON + 034256 COMMON + 034255	COMMON + 034121 COMMON + 034151 COMMON + 034155 COMMON + 034156 COMMON + 034156 COMMON + 034214 COMMON + 034214 COMMON + 034216 COMMON + 034215 COMMON + 034255 COMMON + 034566	COMMON	COMMON	COMMON + 034121 COMMON + 034151 COMMON + 034155 COMMON + 034156 COMMON + 034156 COMMON + 034213 COMMON + 034214 COMMON + 034216 COMMON + 034255
СОМИОМ + 034121 СОМИОМ + 034132 СОМИОМ + 034155 СОМИОМ + 034165 СОМИОМ + 034165 СОМИОМ + 034165 СОМИОМ + 034165 СОМИОМ + 034216 СОМИОМ + 034216 СОМИО	СОМНОМ + 034121 СОМНОМ + 034121 СОМНОМ + 034155 СОМНОМ + 034155 СОМНОМ + 034155 СОМНОМ + 034155 СОМНОМ + 034213 СОМНОМ + 034213	COMMON	COMMON	COMMON	COMMON
P.O.R.AM	P.O.R.AM	PROCRAM + 034104   034121   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101   034101	P.P.G.RAM	P.O. RAM	P.P.O.R.AM
PAGGAM	PAGGRAM	PAGGAM	PACKAN   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   1034101   10341	PACCAME   PACC	PAGESTAN   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   1034104   103
PROCRAM + 034070	PROCRAM + 034070	PROCRAM + 034070	PROCRAM + 034070	PROCRAM + 034070	PAGGRAH
PROCRAM	PROCRAM	PROCRAM	PROCRAM	PROCRAM	PROCRAM
P 205 24	P 205 24	PROCRAM + 033772 PROCRAM + 034070 PROCRAM + 034121 COMMON + 034132 COMMON + 034151 COMMON + 034151 COMMON + 034155 COMMON + 034214 COMMON + 034214 COMMON + 034214 COMMON + 034215 COMMON + 034226 COMMON + 034255 COMMON + 034255 COMMON + 034702 COMMON + 034702 COMMON + 034702 COMMON + 034715 COMMON + 034561	P 2053 M	P.205.84m	P 2052AM + 033772     P 2052AM + 034131     P 2052AM + 034131     E 20HON + 034131     E 20HON + 034131     E 20HON + 034151     E 20HON + 034151     E 20HON + 034215     E 20HON + 03425     E 20HON + 03425     E 20HON + 03425     E 20HON + 03425     E 20HON + 034715     E 20HON + 034715     E 20HON + 034715     E 20HON + 034715     E 20HON + 034511     E 20HON + 035511     E 20HON
РРАОСЯДН + 033772  РРАОСЯДН + 034070  РРОСЯДН + 034121  СОННОИ + 034132  СОННОИ + 034155  СОННОИ + 034165  СОННОИ + 034165  СОННОИ + 034165  СОННОИ + 034217  СОННОИ + 034517  СОННОИ + 035651  СОННОИ + 035651  СОННОИ + 035651	Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р	РРАЗСВАН + 033772 РРАЗСВАН + 034070 РРАЗСВАН + 034104 РРАЗСВАН + 034131 СОННОИ + 034132 СОННОИ + 034155 СОННОИ + 0341155 СОННОИ + 0341155 СОННОИ + 0342117 СОННОИ + 034213 СОННОИ + 034213 СОННОИ + 034213 СОННОИ + 034226 СОННОИ + 034237 СОННОИ + 034255 СОННОИ + 034255 СОННОИ + 034265 СОННОИ + 034702 СОННОИ + 034702 СОННОИ + 034703 СОННОИ + 035651	Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р Р	P20624M + 033772   P3066RAM + 034070   P304070   P304131   P3041	РРАЗСВАН + 033772 РРАЗСВАН + 034070 РРАЗСВАН + 034101 РРАЗСВАН + 034121 СОННОИ + 034132 СОННОИ + 034159 СОННОИ + 034159 СОННОИ + 0341179 СОННОИ + 0341179 СОННОИ + 0342179 СОННОИ + 0342179 СОННОИ + 0342179 СОННОИ + 03426
PAGGRAM	PAGGRAM	PROCRAM + 034070 PROCRAM + 034104 COMMON + 034121 COMMON + 034164 COMMON + 034164 COMMON + 034164 COMMON + 034164 COMMON + 034214 COMMON + 034214 COMMON + 034214 COMMON + 034226 COMMON + 034226 COMMON + 034256 COMMON + 034255 COMMON + 035471	PAGGRAM + 034070 PAGGRAM + 034070 PAGGRAM + 034132 COMMON + 034132 COMMON + 034165 COMMON + 034165 COMMON + 034165 COMMON + 034213 COMMON + 034213 COMMON + 034214 COMMON + 034217	PAGGRAM	PROCRAM
PROCRAM + 033677   PROCRAM + 034104   PROCRAM + 034104   PROCRAM + 034121   PROCRAM + 034131   PROCRAM + 03425   PROCRAM + 03525   PROCRAM + 0352	PROCRAM + 033677   PROCRAM + 034104   PROCRAM + 034104   PROCRAM + 034121   PROCRAM + 034121   PROCRAM + 034132   PROCRAM + 03425   PROCRAM + 03525   PROCRAM + 03525   PROCRAM + 035276   PROCRAM +	PROCRAM + 033677   PROCRAM + 034104   PROCRAM + 034104   PROCRAM + 034121   PROCRAM + 034214   PROCRAM + 0	PROCRAM + 033677   PROCRAM + 034104   PROCRAM + 034104   PROCRAM + 034121   PROCRAM + 034122   PROCRAMON + 034213   PROCRAMON + 034213   PROCRAMON + 034225   PROCRAMON + 034265   PROCRAMON + 03565   PROCRAMON + 035676   PROCRAMON + 0	PROCRAM + 033677   PROCRAM + 033677   PROCRAM + 034104   PROCRAM + 034121   PROCRAM + 034121   PROCRAM + 034131   PROCRAM + 034213   PROCRAM + 035555   PROCRAM + 0	PROCRAM + 033677     PROCRAM + 034104     PROCRAM + 034104     PROCRAM + 034104     PROCRAM + 034121     COMMON + 034151     COMMON + 034151     COMMON + 034151     COMMON + 034151     COMMON + 034214     COMMON + 034215     COMMON + 034511     COMMON + 034511     COMMON + 034511     COMMON + 034511     COMMON + 035511     COMMON + 035511     COMMON + 035511     COMMON + 035551     COMMON + 035551     COMMON + 035551     COMMON + 0355551     COMMON + 0355765     COMMON + 035571     COMMON + 03557
PROCRAM + 033677 PROCRAM + 034104 PROCRAM + 034104 PROCRAM + 034132 COMMON + 034132 COMMON + 034151 COMMON + 034151 COMMON + 034151 COMMON + 034155 COMMON + 034155 COMMON + 034214 COMMON + 034214 COMMON + 034225 COMMON + 034225 COMMON + 034255 COMMON + 035655 COMMON + 035655	PROCRAM + 033677   PROCRAM + 034104   PROCRAM + 034104   PROCRAM + 034104   PROCRAM + 034132   PROCRAM + 03423   PROCRAM + 03423   PROCRAM + 03425   PROCRAM + 03525   PROCRAM + 03525   PROCRAM + 03525   PROCRAM + 03555   PROCRAM + 03557	PROCRAM + 033677 PROCRAM + 034104 PROCRAM + 034104 COMMON + 034132 COMMON + 034156 COMMON + 034156 COMMON + 034157 COMMON + 034157 COMMON + 034214 COMMON + 034214 COMMON + 034226 COMMON + 034255 COMMON + 034566	PROCRAM +033677 PROCRAM +034104 PROCRAM +034104 COMMON +034132 COMMON +034150 COMMON +034150 COMMON +034157 COMMON +034214 COMMON +034214 COMMON +034214 COMMON +034214 COMMON +034214 COMMON +034216 COMMON +034216 COMMON +034266 COMMON +034566	PROCRAM + 033677 PROCRAM + 034104 PROCRAM + 034104 COMHON + 034132 COMHON + 034150 COMHON + 034150 COMHON + 034150 COMHON + 034150 COMHON + 034214 COMHON + 034214 COMHON + 034214 COMHON + 034214 COMHON + 034216 COMHON + 034210 COMHON + 0354710 COMHON + 0354710 COMHON + 035655	PROCRAM +033677 PROCRAM +034104 PROCRAM +034104 CDHHON +034121 CONHON +034151 CONHON +034151 CONHON +034155 CONHON +034155 CONHON +034155 CONHON +034155 CONHON +034214 CONHON +034214 CONHON +034216 CONHON +034255
PROCRAM	PROCRAM	PROCEAN	PROCEAN	PROCRAM	PROCEAN
PROCEAM + 033612     PROCEAM + 033677     PROCEAM + 034070     PROCEAM + 034104     PROCEAM + 034121     PROCEAM + 034121     COMMON + 034150     COMMON + 034150     COMMON + 034213     COMMON + 034214     COMMON + 034214     COMMON + 034215     COMMON + 034565     COMMON + 035551     COMMON + 03551     COMON + 03551     COMMON + 03551     COMMON + 03551     COMMON + 035	PROCRAM + 033612	PROCEAM + 033612	PROCRAM + 033612 PROCRAM + 034070 PROCRAM + 034104 PROCRAM + 034104 COMHON + 034155 COMHON + 034155 COMHON + 034155 COMHON + 034165 COMHON + 034165 COMHON + 034204 COMHON + 034206 COMHON + 034506	PROCRAM + 033612	PROCRAM + 033612     PROCRAM + 033677     PROCRAM + 034070     PROCRAM + 034104     PROCRAM + 034121     PROCRAM + 034121     COMMON + 034156     COMMON + 034156     COMMON + 034156     COMMON + 034214     COMMON + 034226     COMMON + 034227     COMMON + 034227     COMMON + 034257     COMMON + 035551     COMMON + 035551     COMMON + 035551     COMMON + 035551     COMMON + 035555     COMMON + 03555     COMMON + 03
РКОСЯАМ         + 033612         0000065           РКОСЯАМ         + 033677         0000073           РКОСЯАМ         + 034070         0000016           РКОСЯАМ         + 034121         0000017           РКОСЯАМ         + 034121         0000011           РКОСЯАМ         + 034121         000001           СОННОМ         + 034150         000001           СОННОМ         + 034159         000000           СОННОМ         + 034159         000000           СОННОМ         + 034159         000001           СОННОМ         + 034159         000001           СОННОМ         + 034159         000001           СОННОМ         + 034164         000001           СОННОМ         + 034164         000001           СОННОМ         + 034264         000001           СОННОМ         + 034266         00001           СОННОМ         + 03427         00001	PROCRAM         + 033612         0000065           PROCRAM         + 033677         0000073           PROCRAM         + 034070         0000016           PROCRAM         + 034121         0000017           PROCRAM         + 034121         0000017           COHHON         + 034150         0000017           COHHON         + 034159         0000017           COHHON         + 034159         0000017           COHHON         + 034159         000001           COHHON         + 034159         000001           COHHON         + 034159         000001           COHHON         + 034216         00001           COHHON         + 034210         00001           COHHON         + 034210         00001           COHHON         + 034210         00001	РКОСЯАМ         + 033612         0000065           РКОСЯАМ         + 033772         0000015           РКОСЯАМ         + 034070         0000016           РКОСЯАМ         + 034121         0000016           РКОСЯАМ         + 034121         0000011           РКОСЯАМ         + 034132         0000011           СОННОМ         + 034131         000001           СОННОМ         + 034131         000001           СОННОМ         + 034132         000001           СОННОМ         + 034135         000001           СОННОМ         + 034135         000001           СОННОМ         + 034175         000001           СОННОМ         + 034175         000001           СОННОМ         + 034213         000001           СОННОМ         + 034214         000001           СОННОМ         + 034214         000001           СОННОМ         + 034214         000001           СОННОМ         + 034245         000001           СОННОМ         + 034245         000001           СОННОМ         + 034245         000001           СОННОМ         + 034245         000001           СОННОМ         + 034246         000001<	РКОСЯАН         + 033612         0000065           РКОСЯАН         + 033772         0000073           РКОСЯАН         + 034070         0000016           РКОСЯАН         + 034121         0000016           РКОСЯАН         + 034121         0000011           РКОСЯАН         + 034132         0000011           РКОСЯАН         + 034132         000001           РКОРНОИ         + 034132         000001           РКОРНОИ         + 034132         000001           РКОРНОИ         + 034132         000001           РКОРНОИ         + 034134         000001           РКОРНОИ         + 034156         000001           РКОРНОИ         + 034156         000001           РКОРНОИ         + 034156         000001           РКОРНОИ         + 034217         000001           РКОРНОИ         + 034226         000001           РКОРНОИ         + 034256         000001           РКОРНОИ         + 034256         00001           РКОРНОИ         + 034256         00001           РКОРНОИ         + 034256         00001           РКОРНОИ         + 034256         00001           РКОРНОИ         + 034256	РКОСЯАМ         + 033612         0000065           РКОСЯАМ         + 033677         0000013           РКОСЯАМ         + 034070         0000014           РКОСЯАМ         + 034127         0000015           РКОСЯАМ         + 034127         0000017           РКОСЯАМ         + 034127         0000017           РКОСЯАМ         + 034129         0000017           СОННОМ         + 034159         0000007           СОННОМ         + 034159         0000007           СОННОМ         + 034159         0000001           СОННОМ         + 034159         000001           СОННОМ         + 034159         000001           СОННОМ         + 034159         000001           СОННОМ         + 034159         000001           СОННОМ         + 034204         000001           СОННОМ         + 034214         000001           СОННОМ         + 034214         000001           СОННОМ         + 034214         000001           СОННОМ         + 034214         000001           СОННОМ         + 03421         00001           СОННОМ         + 03421         00001           СОННОМ         + 03421         00001 </td <td>PROCRAM         + 033612         0000065           PROCRAM         + 033677         0000073           PROCRAM         + 034070         0000016           PROCRAM         + 034121         0000015           PROCRAM         + 034121         0000011           PROCRAM         + 034121         0000017           COHHON         + 034159         0000007           COHHON         + 034159         0000007           COHHON         + 034159         0000007           COHHON         + 034159         0000001           COHHON         + 034159         0000001           COHHON         + 034215         0000001           COHHON         + 034215         000001           COHHON         + 034215         000001           COHHON         + 034215         000001           COHHON         + 03421         000001           COHHON         + 03426         000001</td>	PROCRAM         + 033612         0000065           PROCRAM         + 033677         0000073           PROCRAM         + 034070         0000016           PROCRAM         + 034121         0000015           PROCRAM         + 034121         0000011           PROCRAM         + 034121         0000017           COHHON         + 034159         0000007           COHHON         + 034159         0000007           COHHON         + 034159         0000007           COHHON         + 034159         0000001           COHHON         + 034159         0000001           COHHON         + 034215         0000001           COHHON         + 034215         000001           COHHON         + 034215         000001           COHHON         + 034215         000001           COHHON         + 03421         000001           COHHON         + 03426         000001
PROCEAN	РКОСЯДН + 033612 0000655 РКОСЯДН + 033772 0000075 РКОСЯДН + 033772 0000016 СОННОИ + 034132 0000016 СОННОИ + 034132 0000017 СОННОИ + 034132 0000017 СОННОИ + 034132 0000017 СОННОИ + 034156 0000017 СОННОИ + 034156 0000017 СОННОИ + 034164 0000017 СОННОИ + 034215 0000017 СОННОИ + 034215 0000017 СОННОИ + 03426 0000017 СОННОИ + 03567 0000110 СОННОИ + 03567 0000111	РКОСКАН + 033612 0000055 РКОСКАН + 033672 0000073 РКОСКАН + 033677 0000015 РКОСКАН + 034132 0000016 ГОЛНОМ + 034132 0000016 ГОЛНОМ + 034132 0000016 ГОЛНОМ + 034132 0000011 ГОЛНОМ + 034155 0000011 ГОЛНОМ + 034164 0000011 ГОЛНОМ + 034164 0000011 ГОЛНОМ + 034164 0000011 ГОЛНОМ + 034213 0000011 ГОЛНОМ + 034213 0000017 ГОЛНОМ + 034213 0000010 ГОЛНОМ + 034213 0000013 ГОЛНОМ + 03425 0000013 ГОЛНОМ + 034213 0000013 ГОЛНОМ + 034213 0000013 ГОЛНОМ + 03425 0000013 ГОЛНОМ + 03425 0000013 ГОЛНОМ + 034213 0000014 ГОЛНОМ + 03456 0000014 ГОЛНОМ + 03551 0000113	PROGRAM	PROGRAM	PROGRAM + 033612 0000055 PROGRAM + 033672 0000075 PROGRAM + 033677 0000015 PROGRAM + 034132 0000016 COMHON + 034132 0000017 COMHON + 034132 0000011 COMHON + 034155 0000007 COMHON + 034164 0000011 COMHON + 034164 0000011 COMHON + 034215 0000017 COMHON + 034213 0000016 COMHON + 034256 0000016 COMHON + 034256 0000016 COMHON + 034564 000016 COMHON + 034564 0000016 COMHON + 034564 000016 COMHON + 03551 0000016 COMHON + 03551 0000016
PROGRAM	PROGRAM	РКОСКАМ         + 033635         00000255           РКОСКАМ         + 033672         0000075           РКОСКАМ         + 03472         0000015           РКОСКАМ         + 03412         0000015           РКОСКАМ         + 034132         0000014           РКОСКАМ         + 034132         0000014           РКОСКАМ         + 034132         000001           СОННОМ         + 034154         000001           СОННОМ         + 034154         000001           СОННОМ         + 034214         000001           СОННОМ         + 034214         000001           СОННОМ         + 034226         000001           СОННОМ         + 034226         000001           СОННОМ         + 034226         00001           СОННОМ         + 034226         000001 </td <td>РКОСКАМ         + 033612         0000055           РКОСКАМ         + 033612         0000055           РКОСКАМ         + 03472         0000015           РКОСКАМ         + 03412         0000015           РКОСКАМ         + 03412         0000011           РКОСКАМ         + 03413         0000011           СОННОМ         + 034121         0000011           СОННОМ         + 03415         0000017           СОННОМ         + 03415         0000007           СОННОМ         + 03415         000001           СОННОМ         + 03417         000001           СОННОМ         + 03424         000001           СОННОМ         + 03424         000001           СОННОМ         + 03424         000001           СОННОМ         + 03424         000001           СОННОМ         + 03426         000001           СОННОМ         + 03426         000001           СОННОМ         + 03426         000001</td> <td>РАССКАМ         + 033534         0000255           РАССКАМ         + 033677         0000075           РАССКАМ         + 034134         0000015           РАССКАМ         + 034132         0000015           РАССКАМ         + 034132         0000017           РАССКАМ         + 034132         0000017           РАССКАМ         + 034132         0000017           РАССКАМ         + 034132         0000017           РАСОНОМ         + 034132         0000017           РАСОНОМ         + 03415         0000017           РАСОНОМ         + 03415         0000017           РАСОНОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 034215         000001           СОННОМ         + 034215         000001           СОННОМ         + 034215         000001           СОННОМ         + 034215         000001           СОННОМ         + 03422         000001           СОННОМ         + 03426         000001           СОННОМ         + 03426         000001           СОННОМ         + 03426         00000</td> <td>РКОСКАМ + 033612 0000055 РКОСКАМ + 033672 0000073 РКОСКАМ + 034070 0000015 РКОСКАМ + 034132 0000015 СОМНОМ + 034132 0000017 СОМНОМ + 034132 0000017 СОМНОМ + 034132 0000017 СОМНОМ + 034155 0000007 СОМНОМ + 034164 0000011 СОМНОМ + 034164 0000011 СОМНОМ + 034164 0000017 СОМНОМ + 034214 0000017 СОМНОМ + 03426 0000017 СОМНОМ + 03426 0000017 СОМНОМ + 034213 0000017 СОМНОМ + 034213 000017 СОМНОМ + 034211 0000017 СОМНОМ + 03551 000011 СОМНОМ + 03551 00001 СОМНОМ + 03501 00001 00001 СОМНОМ + 03501 000001 СОМНОМ + 03501 000001 СОМНОМ + 03501 00001 00001 СОМНОМ + 03501 00001 00001</td>	РКОСКАМ         + 033612         0000055           РКОСКАМ         + 033612         0000055           РКОСКАМ         + 03472         0000015           РКОСКАМ         + 03412         0000015           РКОСКАМ         + 03412         0000011           РКОСКАМ         + 03413         0000011           СОННОМ         + 034121         0000011           СОННОМ         + 03415         0000017           СОННОМ         + 03415         0000007           СОННОМ         + 03415         000001           СОННОМ         + 03417         000001           СОННОМ         + 03424         000001           СОННОМ         + 03424         000001           СОННОМ         + 03424         000001           СОННОМ         + 03424         000001           СОННОМ         + 03426         000001           СОННОМ         + 03426         000001           СОННОМ         + 03426         000001	РАССКАМ         + 033534         0000255           РАССКАМ         + 033677         0000075           РАССКАМ         + 034134         0000015           РАССКАМ         + 034132         0000015           РАССКАМ         + 034132         0000017           РАССКАМ         + 034132         0000017           РАССКАМ         + 034132         0000017           РАССКАМ         + 034132         0000017           РАСОНОМ         + 034132         0000017           РАСОНОМ         + 03415         0000017           РАСОНОМ         + 03415         0000017           РАСОНОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 034215         000001           СОННОМ         + 034215         000001           СОННОМ         + 034215         000001           СОННОМ         + 034215         000001           СОННОМ         + 03422         000001           СОННОМ         + 03426         000001           СОННОМ         + 03426         000001           СОННОМ         + 03426         00000	РКОСКАМ + 033612 0000055 РКОСКАМ + 033672 0000073 РКОСКАМ + 034070 0000015 РКОСКАМ + 034132 0000015 СОМНОМ + 034132 0000017 СОМНОМ + 034132 0000017 СОМНОМ + 034132 0000017 СОМНОМ + 034155 0000007 СОМНОМ + 034164 0000011 СОМНОМ + 034164 0000011 СОМНОМ + 034164 0000017 СОМНОМ + 034214 0000017 СОМНОМ + 03426 0000017 СОМНОМ + 03426 0000017 СОМНОМ + 034213 0000017 СОМНОМ + 034213 000017 СОМНОМ + 034211 0000017 СОМНОМ + 03551 000011 СОМНОМ + 03551 00001 СОМНОМ + 03501 00001 00001 СОМНОМ + 03501 000001 СОМНОМ + 03501 000001 СОМНОМ + 03501 00001 00001 СОМНОМ + 03501 00001 00001
РЯОСКАМ         + 0.3334         0000256           РЯОСКАМ         + 0.33512         0000015           РЯОСКАМ         + 0.33612         0000016           РЯОСКАМ         + 0.3477         0000016           РЯОСКАМ         + 0.34134         0000011           РЯОСКАМ         + 0.34134         0000011           СОННОМ         + 0.34132         0000011           СОННОМ         + 0.34154         0000011           СОННОМ         + 0.34154         0000017           СОННОМ         + 0.34154         0000017           СОННОМ         + 0.34154         0000017           СОННОМ         + 0.34154         0000017           СОННОМ         + 0.34154         0000011           СОННОМ         + 0.34154         0000011           СОННОМ         + 0.34154         0000011           СОННОМ         + 0.34217         0000012           СОННОМ         + 0.34217         0000012           СОННОМ         + 0.34217         0000012           СОННОМ         + 0.34255         0000012           СОННОМ         + 0.34265         0000012           СОННОМ         + 0.34265         0000012           СОННОМ <td< td=""><td>РЯОСКАМ         + 0.3334         0000256           РЯОСКАМ         + 0.3457         000005           РЯОСКАМ         + 0.3477         000005           РЯОСКАМ         + 0.3477         000005           РЯОСКАМ         + 0.3412         0000014           РЯОСКАМ         + 0.3412         000001           РЯОСКАМ         + 0.3412         000001           СОННОИ         + 0.3415         000001           СОННОИ         + 0.3415         000001           СОННОИ         + 0.3415         000001           СОННОИ         + 0.3426         000001           СОННОИ         + 0.34213         000001           СОННОИ         + 0.34213         000001           СОННОИ         + 0.34213         000001           СОННОИ         + 0.34213         000001           СОННОИ         + 0.34210         000001           СОННОИ         + 0.34210         0000</td><td>РЯОСКАМ         + 03334         0000256           РЯОСКАМ         + 033612         0000055           РЯОСКАМ         + 03377         0000015           РЯОСКАМ         + 03412         0000016           РЯОСКАМ         + 03413         0000011           СОННОМ         + 03413         0000011           СОННОМ         + 03413         0000011           СОННОМ         + 03413         000001           СОННОМ         + 03415         000001           СОННОМ         + 034215         000001           СОННОМ         + 034215         000001           СОННОМ         + 034215         000001           СОННОМ         + 034216         000001           СОННОМ         + 034216         000001           СОННОМ         + 034226         000001           СОННОМ         + 034256         00001           СОННОМ         + 034256         00001</td><td>РЯОСКАМ         + 03334         0000256           РЯОСКАМ         + 033612         0000055           РЯОСКАМ         + 03377         0000015           РЯОСКАМ         + 034107         0000016           РЯОСКАМ         + 03412         0000011           РЯОСКАМ         + 03413         0000011           СОННОМ         + 03413         0000011           СОННОМ         + 03413         000001           СОННОМ         + 03415         000001           СОННОМ         + 03421         000001           СОННОМ         + 03421         000001           СОННОМ         + 03421         000001           СОННОМ         + 03421         000001           СОННОМ         + 03425         00001           СОННОМ         + 03425         00001           СОННОМ         + 03425         00001           СОННОМ         + 03425         00001</td><td>PROCEAN         + 0.3334         0000256           PROCEAN         + 0.33612         0000065           PROCEAN         + 0.33672         0000016           PROCEAN         + 0.3477         0000016           PROCEAN         + 0.3477         0000016           PROCEAN         + 0.3413         0000016           COHHON         + 0.3413         000001           COHHON         + 0.3415         000006           COHHON         + 0.34215         000001           COHHON         + 0.3425         000001           COHHON         + 0.3425         000001           COHHON         + 0.3425         000001           COHHON         + 0.3427         0</td><td>РЯОСКАМ         + 0.3334         0000256           РЯОСКАМ         + 0.33612         0000065           РЯОСКАМ         + 0.3477         0000075           РЯОСКАМ         + 0.3472         0000016           РЯОСКАМ         + 0.3412         0000011           РЯОСКАМ         + 0.3413         0000011           СОННОМ         + 0.3413         0000017           СОННОМ         + 0.3413         0000007           СОННОМ         + 0.3413         0000007           СОННОМ         + 0.3415         0000007           СОННОМ         + 0.3415         0000007           СОННОМ         + 0.3415         0000007           СОННОМ         + 0.3415         000001           СОННОМ         + 0.3417         000001           СОННОМ         + 0.34217         000001           СОННОМ         + 0.3421         000001           СОННОМ         + 0.3421         000001           СОННОМ         + 0.3421         000001           СОННОМ         + 0.34226         000001           СОННОМ         + 0.34256         00001           СОННОМ         + 0.34256         00001           СОННОМ         + 0.34256         &lt;</td></td<>	РЯОСКАМ         + 0.3334         0000256           РЯОСКАМ         + 0.3457         000005           РЯОСКАМ         + 0.3477         000005           РЯОСКАМ         + 0.3477         000005           РЯОСКАМ         + 0.3412         0000014           РЯОСКАМ         + 0.3412         000001           РЯОСКАМ         + 0.3412         000001           СОННОИ         + 0.3415         000001           СОННОИ         + 0.3415         000001           СОННОИ         + 0.3415         000001           СОННОИ         + 0.3426         000001           СОННОИ         + 0.34213         000001           СОННОИ         + 0.34213         000001           СОННОИ         + 0.34213         000001           СОННОИ         + 0.34213         000001           СОННОИ         + 0.34210         000001           СОННОИ         + 0.34210         0000	РЯОСКАМ         + 03334         0000256           РЯОСКАМ         + 033612         0000055           РЯОСКАМ         + 03377         0000015           РЯОСКАМ         + 03412         0000016           РЯОСКАМ         + 03413         0000011           СОННОМ         + 03413         0000011           СОННОМ         + 03413         0000011           СОННОМ         + 03413         000001           СОННОМ         + 03415         000001           СОННОМ         + 034215         000001           СОННОМ         + 034215         000001           СОННОМ         + 034215         000001           СОННОМ         + 034216         000001           СОННОМ         + 034216         000001           СОННОМ         + 034226         000001           СОННОМ         + 034256         00001           СОННОМ         + 034256         00001	РЯОСКАМ         + 03334         0000256           РЯОСКАМ         + 033612         0000055           РЯОСКАМ         + 03377         0000015           РЯОСКАМ         + 034107         0000016           РЯОСКАМ         + 03412         0000011           РЯОСКАМ         + 03413         0000011           СОННОМ         + 03413         0000011           СОННОМ         + 03413         000001           СОННОМ         + 03415         000001           СОННОМ         + 03421         000001           СОННОМ         + 03421         000001           СОННОМ         + 03421         000001           СОННОМ         + 03421         000001           СОННОМ         + 03425         00001           СОННОМ         + 03425         00001           СОННОМ         + 03425         00001           СОННОМ         + 03425         00001	PROCEAN         + 0.3334         0000256           PROCEAN         + 0.33612         0000065           PROCEAN         + 0.33672         0000016           PROCEAN         + 0.3477         0000016           PROCEAN         + 0.3477         0000016           PROCEAN         + 0.3413         0000016           COHHON         + 0.3413         000001           COHHON         + 0.3415         000006           COHHON         + 0.34215         000001           COHHON         + 0.3425         000001           COHHON         + 0.3425         000001           COHHON         + 0.3425         000001           COHHON         + 0.3427         0	РЯОСКАМ         + 0.3334         0000256           РЯОСКАМ         + 0.33612         0000065           РЯОСКАМ         + 0.3477         0000075           РЯОСКАМ         + 0.3472         0000016           РЯОСКАМ         + 0.3412         0000011           РЯОСКАМ         + 0.3413         0000011           СОННОМ         + 0.3413         0000017           СОННОМ         + 0.3413         0000007           СОННОМ         + 0.3413         0000007           СОННОМ         + 0.3415         0000007           СОННОМ         + 0.3415         0000007           СОННОМ         + 0.3415         0000007           СОННОМ         + 0.3415         000001           СОННОМ         + 0.3417         000001           СОННОМ         + 0.34217         000001           СОННОМ         + 0.3421         000001           СОННОМ         + 0.3421         000001           СОННОМ         + 0.3421         000001           СОННОМ         + 0.34226         000001           СОННОМ         + 0.34256         00001           СОННОМ         + 0.34256         00001           СОННОМ         + 0.34256         <
РАОСКАН         + 033334         0000256           РКОСКАН         + 033612         0000055           РКОСКАН         + 03377         0000015           РКОСКАН         + 03407         0000016           РКОСКАН         + 03412         0000016           РКОСКАН         + 03412         0000016           СОННОМ         + 03413         000001           СОННОМ         + 03413         000001           СОННОМ         + 03413         000001           СОННОМ         + 03415         000001           СОННОМ         + 03421         000001           СОННОМ         + 03421         000001           СОННОМ         + 03421         000001           СОННОМ         + 03421         000001           СОННОМ         + 03425         00001           СОННОМ         + 03426         00001           СОННОМ         + 03427         00000           СОННОМ         + 03427         00000	PROCRAM + 033334 0000256	PROCRAM + 033334 0000256	PROCRAM + 033334 0000256	РРОСКАН + 033334 0000256  РРОСКАН + 033612 0000055  РРОСКАН + 03377 0000075  РРОСКАН + 03477 0000016  РРОСКАН + 034132 0000016  СОННОИ + 034132 0000017  СОННОИ + 034132 0000017  СОННОИ + 034150 0000017  СОННОИ + 034150 0000017  СОННОИ + 034150 0000017  СОННОИ + 034150 0000017  СОННОИ + 03426 0000017  СОННОИ + 034217 0000017  СОННОИ + 034255 0000016  СОННОИ + 034511 0000016  СОННОИ + 03551 0000011	PROCRAM + 033334 0000256
PROCRAM + 033534 0000256	РАЗОСКАН         +033534         0000256           РАЗОСКАН         +034612         0000015           РАЗСКАН         +03467         0000014           РАЗСКАН         +03412         0000014           РАЗСКАН         +03412         000001           РАЗСКАН         +03412         000001           РАЗСКАН         +03412         000001           СОННОИ         +03412         000001           СОННОИ         +03412         000001           СОННОИ         +03415         000001           СОННОИ         +03426         000001           СОННОИ         +03426         00001           СОННОИ         +03426         00001           СОННОИ         +03426         00001           СОННОИ         +03426         00001           СОННОИ <td>РЯЗОСЯДИ         +035334         0000256           РЯЗОСЯДИ         +035612         0000055           РЯЗОСЯДИ         +034070         0000015           РЯЗОСЯДИ         +034127         0000016           РЯЗОСЯДИ         +034127         0000017           РЯЗОСЯДИ         +034127         0000017           РЯЗОСЯДИ         +034127         0000017           СОННОИ         +034129         0000017           СОННОИ         +034129         0000007           СОННОИ         +034129         0000007           СОННОИ         +034129         0000011           СОННОИ         +034129         000001           СОННОИ         +034129         000001           СОННОИ         +034159         000001           СОННОИ         +034159         000001           СОННОИ         +034213         000001           СОННОИ         +034213         000001           СОННОИ         +03421         000001           СОННОИ         +03426         000001           СОННОИ         +03426         000001           СОННОИ         +03426         000001           СОННОИ         +03426         000001</td> <td>РАЗОСКАН         +033534         0000256           РАЗОСКАН         +033512         0000055           РАЗОСКАН         +03367         0000015           РАЗОСКАН         +03404         0000116           РАЗОСКАН         +03412         0000016           РАЗОКАН         +03412         0000016           СЭННОИ         +03412         000001           СЭННОИ         +03412         000001           СЭННОИ         +03412         000001           СЭННОИ         +03415         000001           СЭННОИ         +03421         000001           СЭННОИ         +03421         000001           СЭННОИ         +03422         000001           СЭННОИ         +03422         000001           С</td> <td>  PROCRAM</td> <td>РЯЗОСЯДИ         +033534         0000256           РЯЗОСЯДИ         +034612         0000055           РЯЗОСЯДИ         +034612         0000016           РЯЗОСЯДИ         +03372         0000016           РЯЗОСЯДИ         +03412         0000011           РЯЗОСЯДИ         +03412         000001           СОННОИ         +03412         000001           СОННОИ         +03412         000001           СОННОИ         +03415         000001           СОННОИ         +03421         000001           СОННОИ         +03421         000001           СОННОИ         +03426         000001           СОННОИ         +03426         00001           СОННОИ         +03426         00001           СОННОИ         +03426         00001           СОННОИ         +03426         00001           СОНН</td>	РЯЗОСЯДИ         +035334         0000256           РЯЗОСЯДИ         +035612         0000055           РЯЗОСЯДИ         +034070         0000015           РЯЗОСЯДИ         +034127         0000016           РЯЗОСЯДИ         +034127         0000017           РЯЗОСЯДИ         +034127         0000017           РЯЗОСЯДИ         +034127         0000017           СОННОИ         +034129         0000017           СОННОИ         +034129         0000007           СОННОИ         +034129         0000007           СОННОИ         +034129         0000011           СОННОИ         +034129         000001           СОННОИ         +034129         000001           СОННОИ         +034159         000001           СОННОИ         +034159         000001           СОННОИ         +034213         000001           СОННОИ         +034213         000001           СОННОИ         +03421         000001           СОННОИ         +03426         000001           СОННОИ         +03426         000001           СОННОИ         +03426         000001           СОННОИ         +03426         000001	РАЗОСКАН         +033534         0000256           РАЗОСКАН         +033512         0000055           РАЗОСКАН         +03367         0000015           РАЗОСКАН         +03404         0000116           РАЗОСКАН         +03412         0000016           РАЗОКАН         +03412         0000016           СЭННОИ         +03412         000001           СЭННОИ         +03412         000001           СЭННОИ         +03412         000001           СЭННОИ         +03415         000001           СЭННОИ         +03421         000001           СЭННОИ         +03421         000001           СЭННОИ         +03422         000001           СЭННОИ         +03422         000001           С	PROCRAM	РЯЗОСЯДИ         +033534         0000256           РЯЗОСЯДИ         +034612         0000055           РЯЗОСЯДИ         +034612         0000016           РЯЗОСЯДИ         +03372         0000016           РЯЗОСЯДИ         +03412         0000011           РЯЗОСЯДИ         +03412         000001           СОННОИ         +03412         000001           СОННОИ         +03412         000001           СОННОИ         +03415         000001           СОННОИ         +03421         000001           СОННОИ         +03421         000001           СОННОИ         +03426         000001           СОННОИ         +03426         00001           СОННОИ         +03426         00001           СОННОИ         +03426         00001           СОННОИ         +03426         00001           СОНН
PROGRAM	PROGRAM	PROCEAM	РЕОСЕДИ + 033524 000055 РЕОСЕДИ + 033572 0000055 РЕОСЕДИ + 033772 0000016 РЕОСЕДИ + 034172 0000016 РЕОСЕДИ + 034132 0000016 РЕОСЕДИ + 034132 0000016 ГОННОИ + 034132 0000017 СОННОИ + 034159 0000017 СОННОИ + 034159 0000017 СОННОИ + 034159 0000017 СОННОИ + 03424 0000017 СОННОИ + 03424 0000017 СОННОИ + 03426 0000017 СОННОИ + 03421 0000017 СОННОИ + 03421 0000017 СОННОИ + 03456 0000017 СОННОИ + 03450 0000017 СОННОИ + 03450 0000111 СОННОИ + 03450 0000017 СОННОИ + 03450 0000017 СОННОИ + 03450 0000017 СОННОИ + 03450 0000111	PROGRAM	PROCRAM + 033524 000055
РКОСКАН         +033224         0000110           РКОСКАН         +033224         0000055           РКОСКАН         +03372         0000075           РКОСКАН         +03377         0000016           РКОСКАН         +034104         0000016           РКОСКАН         +034104         0000016           РКОСКАН         +034132         0000017           РКОСКАН         +034132         0000017           СОННОИ         +034132         000001           СОННОИ         +034154         000001           СОННОИ         +034154         000001           СОННОИ         +034213         000001           СОННОИ         +034213         000001           СОННОИ         +034213         000001           СОННОИ         +03426         00001	РКОСКАН         +033224         0000110           РКОСКАН         +033224         0000055           РКОСКАН         +03372         0000073           РКОСКАН         +03377         0000015           РКОСКАН         +034104         0000116           РКОСКАН         +034132         0000016           РКОСКАН         +034132         0000017           РКОСКАН         +034132         0000017           СОННОИ         +034132         000001           СОННОИ         +034134         000001           СОННОИ         +03415         000001           СОННОИ         +03421         000001           СОННОИ         +03421         000001           СОННОИ         +03426         000001           СОННОИ         +03426         000001	РКОСКАМ         +033224         0000110           РКОСКАМ         +033224         0000055           РКОСКАМ         +033772         0000073           РКОСКАМ         +033772         0000015           РКОСКАМ         +03472         0000015           РКОСКАМ         +03412         0000016           РКОСКАМ         +03412         0000016           РКОСКАМ         +03412         0000017           СОННОМ         +03415         0000017           СОННОМ         +03415         000001           СОННОМ         +03416         000001           СОННОМ         +03421         000001           СОННОМ         +03421         000001           СОННОМ         +03421         000001           СОННОМ         +03421         000001           СОННОМ         +03422         000001           СОННОМ         +03423         00001           СОННОМ         +03423         00001           С	РКОСКАМ         +033224         0000110           РКОСКАМ         +033224         0000055           РКОСКАМ         +033772         0000073           РКОСКАМ         +033772         0000075           РКОСКАМ         +034772         0000015           РКОСКАМ         +03472         0000015           РКОСКАМ         +03412         0000015           РКОСКАМ         +03412         0000017           РКОСКАМ         +034121         0000017           СОННОМ         +034142         0000017           СОННОМ         +03415         0000011           СОННОМ         +034164         0000011           СОННОМ         +034164         0000011           СОННОМ         +034164         0000011           СОННОМ         +034164         0000011           СОННОМ         +034214         0000011           СОННОМ         +034214         0000011           СОННОМ         +034214         0000011           СОННОМ         +034226         0000011           СОННОМ         +03423         0000012           СОННОМ         +03423         0000012           СОННОМ         +03423         0000012     <	PROGRAM         +033224         0000110           PROGRAM         +033224         000065           PROGRAM         +03372         000005           PROGRAM         +03372         000005           PROGRAM         +03372         0000015           PROGRAM         +03412         0000016           PROGRAM         +03413         000001           PROGRAM         +03413         000001           COHHON         +03413         000001           COHHON         +03413         000001           COHHON         +03413         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03426         000001           COHHON         +03426         00001           COHHON	РКОСКАМ         +033224         0000110           РКОСКАМ         +033214         0000055           РКОСКАМ         +033772         0000073           РКОСКАМ         +033772         0000015           РКОСКАМ         +034104         0000016           РКОСКАМ         +034102         0000016           РКОСКАМ         +034102         0000016           РКОСКАМ         +034102         0000016           РКОСКАМ         +034102         0000016           СОННОМ         +034102         0000017           СОННОМ         +034104         000001           СОННОМ         +034210         000001           СОННОМ         +034210         000001           СОННОМ         +034210         000001           СОННОМ         +034210         000001           СОННОМ         +034226         000001           СОННОМ         +034204         000001
РКОСКАН         +033224         0000110           РКОСКАН         +033224         000016           РКОСКАН         +033512         0000016           РКОСКАН         +034577         0000016           РКОСКАН         +034134         0000016           РКОСКАН         +034134         0000016           РКОСКАН         +034132         0000011           СОННОИ         +034132         000001           СОННОИ         +034132         000001           СОННОИ         +034159         000001           СОННОИ         +034219         000001           СОННОИ         +034219         000001           СОННОИ         +034219         000001           СОННОИ         +034219         000001 <t< td=""><td>РКОСКАН         +033224         0000110           РКОСКАН         +033324         0000155           РКОСКАН         +033612         0000055           РКОСКАН         +03472         0000016           РКОСКАН         +03472         0000016           РКОСКАН         +034132         0000016           РКОСКАН         +034132         0000017           СОННОИ         +034132         0000017           СОННОИ         +034132         0000017           СОННОИ         +034145         0000017           СОННОИ         +034152         0000017           СОННОИ         +034152         0000017           СОННОИ         +034154         0000017           СОННОИ         +034154         000001           СОННОИ         +034157         000001           СОННОИ         +034157         000001           СОННОИ         +034157         000001           СОННОИ         +034217         000001           СОННОИ         +034217         000001           СОННОИ         +034255         00001           СОННОИ         +034255         000001           СОННОИ         +034271         000001</td><td>РКОСКАН         +033224         0000110           РКОСКАН         +033324         0000165           РКОСКАН         +033612         0000016           РКОСКАН         +033772         0000016           РКОСКАН         +03477         0000016           РКОСКАН         +03412         0000016           РКОСКАН         +03413         0000016           СОННОМ         +03413         0000017           СОННОМ         +03413         0000017           СОННОМ         +03415         000001           СОННОМ         +034215         000001           СОННОМ         +034215         000001           СОННОМ         +034215         000001           СОННОМ         +034216         000001           СОННОМ         +03426         000001           СОННОМ         +03426         000001           СОННОМ         +03426         000001</td><td>РКОСКАН         +033224         0000110           РКОСКАН         +033324         000016           РКОСКАН         +03377         0000016           РКОСКАН         +03477         0000016           РКОСКАН         +03477         0000016           РКОСКАН         +03412         0000016           РКОСКАН         +03413         0000011           СОННОМ         +03413         0000017           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03421         000001           СОННОМ         +03421         000001           СОННОМ         +03425         000001           СОННОМ         +03425         000001           СОННОМ         +03425         000001           СОННОМ         +03425         000001</td><td>РКОСКАН         +033224         0000110           РКОСКАН         +033324         000010           РКОСКАН         +033374         0000016           РКОСКАН         +033772         0000016           РКОСКАН         +03477         0000016           РКОСКАН         +034134         0000016           РКОСКАН         +034132         000001           СОННОИ         +034132         000001           СОННОИ         +034154         000001           СОННОИ         +034159         000001           СОННОИ         +034219         000001           СОННОИ         +034219         000001           СОННОИ         +034219         000001           СОННОИ         +034219         000001           СОННОИ         +03421         000001           СОННОИ         +03421         000001           СОННОИ         +03421         000001</td><td>РКОСКАН         +033224         0000110           РКОСКАН         +033324         0000165           РКОСКАН         +033612         0000016           РКОСКАН         +03377         0000016           РКОСКАН         +03377         0000016           РКОСКАН         +03412         0000016           РКОСКАН         +03412         0000016           СОННОИ         +03413         0000017           СОННОИ         +03412         000001           СОННОИ         +03415         000001           СОННОИ         +034215         000001           СОННОИ         +034215         000001           СОННОИ         +034215         000001           СОННОИ         +034215         000001           СОННОИ         +03426         00001           СОННОИ         +03426         00001           СОННОИ         +034237         00001</td></t<>	РКОСКАН         +033224         0000110           РКОСКАН         +033324         0000155           РКОСКАН         +033612         0000055           РКОСКАН         +03472         0000016           РКОСКАН         +03472         0000016           РКОСКАН         +034132         0000016           РКОСКАН         +034132         0000017           СОННОИ         +034132         0000017           СОННОИ         +034132         0000017           СОННОИ         +034145         0000017           СОННОИ         +034152         0000017           СОННОИ         +034152         0000017           СОННОИ         +034154         0000017           СОННОИ         +034154         000001           СОННОИ         +034157         000001           СОННОИ         +034157         000001           СОННОИ         +034157         000001           СОННОИ         +034217         000001           СОННОИ         +034217         000001           СОННОИ         +034255         00001           СОННОИ         +034255         000001           СОННОИ         +034271         000001	РКОСКАН         +033224         0000110           РКОСКАН         +033324         0000165           РКОСКАН         +033612         0000016           РКОСКАН         +033772         0000016           РКОСКАН         +03477         0000016           РКОСКАН         +03412         0000016           РКОСКАН         +03413         0000016           СОННОМ         +03413         0000017           СОННОМ         +03413         0000017           СОННОМ         +03415         000001           СОННОМ         +034215         000001           СОННОМ         +034215         000001           СОННОМ         +034215         000001           СОННОМ         +034216         000001           СОННОМ         +03426         000001           СОННОМ         +03426         000001           СОННОМ         +03426         000001	РКОСКАН         +033224         0000110           РКОСКАН         +033324         000016           РКОСКАН         +03377         0000016           РКОСКАН         +03477         0000016           РКОСКАН         +03477         0000016           РКОСКАН         +03412         0000016           РКОСКАН         +03413         0000011           СОННОМ         +03413         0000017           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03421         000001           СОННОМ         +03421         000001           СОННОМ         +03425         000001           СОННОМ         +03425         000001           СОННОМ         +03425         000001           СОННОМ         +03425         000001	РКОСКАН         +033224         0000110           РКОСКАН         +033324         000010           РКОСКАН         +033374         0000016           РКОСКАН         +033772         0000016           РКОСКАН         +03477         0000016           РКОСКАН         +034134         0000016           РКОСКАН         +034132         000001           СОННОИ         +034132         000001           СОННОИ         +034154         000001           СОННОИ         +034159         000001           СОННОИ         +034219         000001           СОННОИ         +034219         000001           СОННОИ         +034219         000001           СОННОИ         +034219         000001           СОННОИ         +03421         000001           СОННОИ         +03421         000001           СОННОИ         +03421         000001	РКОСКАН         +033224         0000110           РКОСКАН         +033324         0000165           РКОСКАН         +033612         0000016           РКОСКАН         +03377         0000016           РКОСКАН         +03377         0000016           РКОСКАН         +03412         0000016           РКОСКАН         +03412         0000016           СОННОИ         +03413         0000017           СОННОИ         +03412         000001           СОННОИ         +03415         000001           СОННОИ         +034215         000001           СОННОИ         +034215         000001           СОННОИ         +034215         000001           СОННОИ         +034215         000001           СОННОИ         +03426         00001           СОННОИ         +03426         00001           СОННОИ         +034237         00001
РКОСКАН + 0332162 0000110 PROCRAM + 0332162 0000055 PROCRAM + 033612 0000015 PROCRAM + 033612 0000015 PROCRAM + 033612 0000011 PROCRAM + 033612 0000015 PROCRAM + 033612 0000015 PROCRAM + 034121 0000011 PROCRAM + 03412 0000011 PROCRAM + 03412 0000011 PROCRAM + 03412 0000011 PROCRAM + 03412 0000011 PROCRAM + 03426 000011 PROCRAM + 034561 0000012 PROCRAM + 034561 0000012 PROCRAM + 034561 0000012 PROCRAM + 034561 0000011 PROCRAM + 034561 0000011 PROCRAM + 035651 0000011 PROCRAM +	РКОСКАН         + 0332162         0000110           РКОСКАН         + 0332162         0000256           РКОСКАН         + 033224         0000110           РКОСКАН         + 033612         0000015           РКОСКАН         + 033472         0000016           РКОСКАН         + 03404         0000116           РКОСКАН         + 03412         0000016           РКОСКАН         + 03412         0000017           РКОСКАН         + 03413         0000017           РКОСКАН         + 03413         0000017           РКОСКАН         + 03413         0000017           РКОСКАН         + 03413         0000017           РКОРНОИ         + 03415         0000010           РКОРНОИ         + 03426         000001           РКОРНОИ         + 03426         000010           РКОРНОИ         + 03426         000010           РКОРНОИ         + 03426         000010           РКОРНОИ         + 03426	РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОССОН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РКОСКАН РК	РКОСКАН + 0332162 0000055 PROCRAM + 033224 0000110 PROCRAM + 033224 0000016 PROCRAM + 033374 0000055 PROCRAM + 033472 0000016 PROCRAM + 033472 0000016 PROCRAM + 033412 0000016 PROCRAM + 034132 0000016 PROCRAM + 034132 0000017 PROCRAM + 034132 0000017 PROCRAM + 034132 0000017 PROCRAM + 034132 0000017 PROCRAM + 034150 0000017 PROCRAM + 034150 0000017 PROCRAM + 034214 0000017 PROCRAMON + 034256 0000011 PROCRAMON + 034256 0000011 PROCRAMON + 03456 0000011 PROCRAMON + 035651 0000011 PROCRAMON + 035651 0000011 PROCRAMON + 035651 0000011 PROCRAMON + 035655 0000011 PROCRAMON + 0356076 000001 PROCRAMON + 0356076 000001 PROCRAMON + 0356076 000001 PROCRAMON + 0356076 000001 PROCRAMON + 0356076 00000	PROCRAM + 1033254	РКОСКАН         + 033224         0000110           РКОСКАН         + 033224         0000256           РКОСКАН         + 033224         0000165           РКОСКАН         + 033612         0000016           РКОСКАН         + 033612         0000016           РКОСКАН         + 03372         0000016           РКОСКАН         + 03412         0000011           РКОСКАН         + 03412         000001           РКОСКАН         + 03412         000001           СОННОИ         + 03412         000001           СОННОИ         + 03412         000001           СОННОИ         + 03415         000001           СОННОИ         + 03421         000001           СОННОИ         + 03422         000001           СОННОИ         + 03426         000001           СОННОИ         + 03426         000001           СОННОИ         + 03426         000001
PROGRAM	PROGRAM	PROGRAM	РАОСКАЯ         + 033162         0000110           РАОСКАЯ         + 033224         0000110           РАОСКАЯ         + 033214         0000110           РАОСКАЯ         + 033172         0000115           РАОСКАЯ         + 034122         0000116           РАОСКАЯ         + 034132         0000116           РАОСКАЯ         + 034132         0000011           РАОСКАЯ         + 034132         0000011           РАОСКАЯ         + 034132         0000017           РАОСКАЯ         + 034132         0000017           СОННОИ         + 034137         0000017           СОННОИ         + 034137         0000017           СОННОИ         + 034164         0000011           СОННОИ         + 034125         0000010           СОННОИ         + 034214         0000011           СОННОИ         + 034214         0000010           СОННОИ         + 034237	PROGRAM	PROGRAM
РЯФСКАЯ         + 033254         0000110           РЯФСКАЯ         + 033224         0000110           РЯФСКАЯ         + 033224         0000055           РЯФСКАЯ         + 033772         0000075           РЯФСКАЯ         + 033772         0000016           РЯФСКАЯ         + 034132         0000016           РРФОСКАЯ         + 034132         0000016           РРФОСКАЯ         + 034132         0000017           РРФОСКАЯ         + 034132         0000017           СОННОИ         + 034132         000001           СОННОИ         + 034134         000001           СОННОИ         + 034134         000001           СОННОИ         + 03415         000001           СОННОИ         + 03417         000001           СОННОИ         + 03421         000001           СОННОИ         + 03426         00001           СОННОИ         + 03426 <td< td=""><td>РЯФСКАЯ         + 033254         0000110           РЯФСКАЯ         + 033224         0000110           РЯФСКАЯ         + 033214         0000055           РЯФСКАЯ         + 033672         0000073           РЯФСКАЯ         + 033772         0000075           РРФССКАЯ         + 034132         0000016           РРФССКАЯ         + 034132         0000016           РРФССКАЯ         + 034132         0000017           СОННОИ         + 034132         000001           СОННОИ         + 034132         000001           СОННОИ         + 034134         000001           СОННОИ         + 034164         000001           СОННОИ         + 034164         000001           СОННОИ         + 034214         000001           СОННОИ         + 03426         000001           СОННОИ         + 03426</td><td>PROGRAM         +03326         0000140           PROGRAM         +03324         0000140           PROGRAM         +03324         0000055           PROGRAM         +03377         0000073           PROGRAM         +03377         0000075           PROGRAM         +03377         0000075           PROGRAM         +03412         0000016           PROGRAM         +03412         0000016           PROGRAM         +03412         0000017           PROGRAM         +03412         0000017           COHHON         +03415         0000017           COHHON         +03415         000001           COHHON         +03416         000001           COHHON         +03415         000001           COHHON         +03420         000001           COHHON         +034215         000001           COHHON         +034215         000001           COHHON         +034216         000001           COHHON         +034216         000001           COHHON         +034215         000001           COHHON         +034226         00001           COHHON         +03423         000001</td><td>PROCRAM         +033162         0000110           PROCRAM         +03324         0000110           PROCRAM         +03327         0000055           PROCRAM         +03377         0000073           PROCRAM         +03377         0000014           PROCRAM         +03412         0000017           COHHON         +03412         0000017           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03416         000001           COHHON         +034216         000001           COHHON         +034216         000001           COHHON         +034216         000001           COHHON         +034216         000001           COHHON         +034226         000001           COHHON         +034237         000001</td><td>PROGRAM         +03326         0000140           PROGRAM         +03324         0000140           PROGRAM         +03324         0000055           PROGRAM         +03372         0000075           PROGRAM         +033772         0000016           PROGRAM         +033772         0000016           PROGRAM         +034137         0000011           PROGRAM         +034132         0000016           PROGRAM         +034132         000001           COHHON         +034132         000001           COHHON         +034132         000001           COHHON         +034159         000001           COHHON         +03426         00001           COHHON         +03426         00001</td><td>PROCRAM         +033162         0000110           PROCRAM         +03324         0000110           PROCRAM         +03327         0000055           PROCRAM         +03377         0000073           PROCRAM         +03377         0000075           PROCRAM         +03472         0000016           PROCRAM         +03472         0000016           PROCRAM         +034070         0000016           PROCRAM         +03412         0000016           PROCRAM         +03412         0000017           COHHON         +03412         0000017           COHHON         +03416         000001           COHHON         +03416         000001           COHHON         +03416         000001           COHHON         +03426         000001           COHHON         +034215         000001</td></td<>	РЯФСКАЯ         + 033254         0000110           РЯФСКАЯ         + 033224         0000110           РЯФСКАЯ         + 033214         0000055           РЯФСКАЯ         + 033672         0000073           РЯФСКАЯ         + 033772         0000075           РРФССКАЯ         + 034132         0000016           РРФССКАЯ         + 034132         0000016           РРФССКАЯ         + 034132         0000017           СОННОИ         + 034132         000001           СОННОИ         + 034132         000001           СОННОИ         + 034134         000001           СОННОИ         + 034164         000001           СОННОИ         + 034164         000001           СОННОИ         + 034214         000001           СОННОИ         + 03426         000001           СОННОИ         + 03426	PROGRAM         +03326         0000140           PROGRAM         +03324         0000140           PROGRAM         +03324         0000055           PROGRAM         +03377         0000073           PROGRAM         +03377         0000075           PROGRAM         +03377    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      0000014           PROCRAM         +03412         0000017           COHHON         +03412         0000017           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03416         000001           COHHON         +034216         000001           COHHON         +034216         000001           COHHON         +034216         000001           COHHON         +034216         000001           COHHON         +034226         000001           COHHON         +034237         000001	PROGRAM         +03326         0000140           PROGRAM         +03324         0000140           PROGRAM         +03324         0000055           PROGRAM         +03372         0000075           PROGRAM         +033772         0000016           PROGRAM         +033772         0000016           PROGRAM         +034137         0000011           PROGRAM         +034132         0000016           PROGRAM         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РЯОСКАН         + 133162         000010           РЯОСКАН         + 133162         000010           РЯОСКАН         + 133162         000010           РЯОСКАН         + 13367         000016           РЯОСКАН         + 13367         000016           РЯОСКАН         + 13407         000016           РЯОСКАН         + 13407         000016           РЯОСКАН         + 13407         000016           РЯОСКАН         + 13413         000016           РЯОСКАН         + 13413         000011           СЭННОИ         + 13413         000011           СОННОИ         + 13415         000011           СЭННОИ         + 13421         000011           СЭННОИ         + 13421         000011           СЭННОИ         + 13421         000011           СЭННОИ         + 13421         000011           СЭННОИ         + 134225         000011      <	PROGRAM + 033224 0000110	РЯФСКАН         + 03324         000010           РЯФСКАН         + 03324         0000110           РЯФСКАН         + 03324         000015           РЯФСКАН         + 033612         000005           РЯФСКАН         + 033677         000005           РЯФСКАН         + 03377         000001           РЯФСКАН         + 03413         000001           РРФССКАН         + 03413         000001           РРФССКАН         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03426         000001           СОННОИ         + 034215         000001           СОННОИ         + 034216         000001	РАЗОСКАЯ         + 033224         000010           РАЗОСКАЯ         + 033224         0000110           РАЗОСКАЯ         + 033324         0000165           РАЗОСКАЯ         + 033372         0000016           РАЗОСКАЯ         + 033772         0000016           РАЗОСКАЯ         + 033772         0000016           РАЗОСКАЯ         + 034132         0000016           РАЗОСКАЯ         + 034132         0000016           РАЗОСКАЯ         + 034132         0000017           СОННОИ         + 034154         0000017           СОННОИ         + 034156         0000011           СОННОИ         + 0342175         0000010           СОННОИ         + 0342175         0000010           СОННОИ         + 034217         0000010           СОННОИ         + 034217         0000011           СОННОИ         + 034217         0000012           СОННОИ         + 034224         0000012           СОННОИ         + 034	РХОСКАН         + 133162         000006           РХОСКАН         + 133162         0000110           РХОСКАН         + 133162         0000110           РХОСКАН         + 133672         0000016           РХОСКАН         + 134070         0000016           РХОСКАН         + 134132         000001           СОННОИ         + 134154         000001           СОННОИ         + 134154         000001           СОННОИ         + 134215         000001           СОННОИ         + 134216         000001           СОННОИ         + 134217         000001           СОННОИ         + 134210         0	РАЗОСКАЯ         + 03324         000010           РАЗОСКАЯ         + 03324         0000110           РАЗОСКАЯ         + 033324         0000155           РАЗОСКАЯ         + 033612         0000055           РАЗОСКАЯ         + 033672         0000073           РАЗОСКАЯ         + 033772         0000015           РАЗОСКАЯ         + 034132         0000011           РАЗОСКАЯ         + 034132         0000011           СОННОИ         + 034132         0000017           СОННОИ         + 034132         0000017           СОННОИ         + 034132         0000017           СОННОИ         + 034132         0000017           СОННОИ         + 034154         000001           СОННОИ         + 034157         000001           СОННОИ         + 034157         000001           СОННОИ         + 034157         000001           СОННОИ         + 034157         000001           СОННОИ         + 034264         000001           СОННОИ         + 0342175         000001           СОННОИ         + 0342175         000001           СОННОИ         + 034226         000001           СОННОИ         + 034237
РКОСКАН         +033076         0000064           РКОСКАН         +033162         0000101           РКОСКАН         +033162         0000101           РКОСКАН         +03317         0000055           РКОСКАН         +03317         0000017           РКОСКАН         +03317         0000016           РКОСКАН         +03317         0000016           РКОСКАН         +03317         0000016           РКОСКАН         +03317         0000016           РКОСКАН         +03412         000001           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +034204         000001           СОННОМ         +034214         000001           СОННОМ         +034214         000001           СОННОМ         +034214         00001           СОННОМ         +034214         00001           СОННОМ         +034214         00001	РКОСКАН         +033076         0000064           РКОСКАН         +033267         0000162           РКОСКАН         +033524         0000162           РКОСКАН         +033512         0000055           РКОСКАН         +033512         00000173           РКОСКАН         +033512         0000016           РКОСКАН         +033512         0000016           РКОСКАН         +033512         0000016           РКОСКАН         +033527         0000016           РКОСКАН         +03412         0000016           СОННОИ         +03412         0000017           СОННОИ         +03415         0000010           СОННОИ         +03415         0000010           СОННОИ         +03426         000001           СОННОИ         +03426         000010           СОННОИ         +03426         000012           СОННОИ         +03426         000012           СОННОИ         +03426         000012	РКОСКАН         +033076         0000064           РКОСКАН         +03326         0000065           РКОСКАН         +033216         0000055           РКОСКАН         +033212         0000073           РКОСКАН         +033612         0000073           РКОСКАН         +033677         0000073           РКОСКАН         +034124         0000016           РКОСКАН         +034134         0000017           РКОСКАН         +034134         000001           СОННОИ         +034134         000001           СОННОИ         +034134         000001           СОННОИ         +034156         000001           СОННОИ         +034216         000001           СОННОИ         +034216         000001           СОННОИ         +034216         000001           СОННОИ         +034216         000001           СОННОИ         +034224         000001	РКОСКАН         +033076         0000064           РКОСКАН         +03326         0000162           РКОСКАН         +03324         0000165           РКОСКАН         +03324         0000055           РКОСКАН         +03377         0000073           РКОСКАН         +03377         0000016           РКОСКАН         +03377         0000016           РКОСКАН         +03412         0000016           РКОСКАН         +03412         000001           РКОСКАН         +03413         000001           СОННОИ         +03415         000001           СОННОИ         +03421         000001           СОННОИ         +03421         000001           СОННОИ         +034221         000001	РКОСКАН         +033076         0000064           РКОСКАН         +033162         0000162           РКОСКАН         +033512         0000055           РКОСКАН         +033512         0000055           РКОСКАН         +033512         0000015           РКОСКАН         +033512         0000016           РКОСКАН         +033512         0000016           РКОСКАН         +033512         0000016           РКОСКАН         +033512         0000016           РКОСКАН         +03412         0000016           СОННОМ         +03412         0000016           СОННОМ         +03415         0000016           СОННОМ         +03415         0000017           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03421         000001	РКОСКАН         +033076         0000064           РКОСКАН         +03326         0000162           РКОСКАН         +03324         0000165           РКОСКАН         +03321         000005           РКОСКАН         +03321         000007           РКОСКАН         +03377         000007           РКОСКАН         +03410         000011           РКОСКАН         +03410         000011           РКОСКАН         +03412         000001           РКОСКАН         +03413         000001           СОННОИ         +03413         000001           СОННОИ         +03415         000001           СОННОИ         +03426         000001           СОННОИ         +03421         000001           СОННОИ         +03426         000001           СОННОИ         +03426         000001           СОННОИ         +03426         000001           СОННОИ
PROGRAM	PROGRAM         +033076         0000064           PROGRAM         +033076         0000064           PROGRAM         +033274         0000110           PROGRAM         +033677         0000015           PROGRAM         +033677         0000015           PROGRAM         +033772         0000016           PROGRAM         +033677         0000016           PROGRAM         +033677         0000016           PROGRAM         +034070         0000016           PROGRAM         +034121         0000017           COHHON         +034121         000001           COHHON         +034159         000001           COHHON         +034215         000001           COHHON         +034216         000001           COHHON         +034216         000001           COHHON         +034216         000001           COHHON         +034216         000001           COHHON         +034210         00001	РКОСКАН         +033076         0000064           РКОСКАН         +033276         0000065           РКОСКАН         +03324         000010           РКОСКАН         +03357         0000055           РКОСКАН         +03377         0000015           РКОСКАН         +03477         0000015           РКОСКАН         +03413         0000016           РКОСКАН         +03413         0000016           РКОСКАН         +03413         0000016           РКОСКАН         +03413         000001           СОННОИ         +03413         000001           СОННОИ         +03413         000001           СОННОИ         +03415         000001           СОННОИ         +03416         000001           СОННОИ         +03425         000001           СОННОИ         +03426         000001           СОННОИ         +03426         000001           СОННОИ         +03427         000001	РКОСКАН         +033076         0000064           РКОСКАН         +033162         0000162           РКОСКАН         +03324         0000110           РКОСКАН         +033612         0000165           РКОСКАН         +033677         0000016           РКОСКАН         +033677         0000016           РКОСКАН         +034172         0000016           РКОСКАН         +034132         0000016           РКОСКАН         +034132         0000016           РКОСКАН         +034132         0000017           СОННОМ         +034137         0000017           СОННОМ         +03415         0000017           СОННОМ         +03415         0000017           СОННОМ         +03415         0000017           СОННОМ         +03421         0000017           СОННОМ         +03422         0000017           СОННОМ         +03423         0000016	РКОСКАН         +033076         0000064           РКОСКАН         +033076         0000064           РКОСКАН         +033274         0000110           РКОСКАН         +033677         0000073           РКОСКАН         +033677         0000014           РКОСКАН         +034127         0000017           СОННОИ         +034127         0000017           СОННОИ         +034159         0000017           СОННОИ         +034159         0000017           СОННОИ         +034159         000001           СОННОИ         +03426         000001           СОННОИ         +03427         000001           СОННОИ         +03428         00001           СОННОИ         +03428         00001	РКОСКАН         +033076         0000064           РКОСКАН         +033076         0000064           РКОСКАН         +03324         000010           РКОСКАН         +033524         0000055           РКОСКАН         +03357         0000015           РКОСКАН         +03377         0000016           РКОСКАН         +03413         000011           РКОСКАН         +03413         0000016           РКОСКАН         +03413         0000016           РКОСКАН         +03413         0000016           СОННОИ         +03413         0000017           СОННОИ         +03413         0000017           СОННОИ         +03413         0000017           СОННОИ         +03413         0000017           СОННОИ         +03413         000001           СОННОИ         +03413         000001           СОННОИ         +03415         000001           СОННОИ         +03415         000001           СОННОИ         +03415         000001           СОННОИ         +03421         000001           СОННОИ         +03426         000001           СОННОИ         +03426         000001
РКОСКАН +0330745 0000064 РКОСКАН +033074 0000110 РКОСКАН +033072 0000075 РКОСКАН +033072 0000075 РКОСКАН +033772 0000075 РКОСКАН +033772 00000167 РКОСКАН +033772 00000167 РКОСКАН +034137 00000167 РКОСКАН +034132 00000167 СОННОИ +034132 0000017 СОННОИ +034132 0000017 СОННОИ +034137 0000017 СОННОИ +034217 0000017 СОННОИ +034255 0000017 СОННОИ +034255 0000017 СОННОИ +033271 0000016 СОННОИ +033507 0000111 СОННОИ +03551 0000011 СОННОИ +03551 0000111 СОННОИ +03551 0000111 СОННОИ +03551 0000113	РКОСКАН +033076 0000064 РКОСКАН +033076 0000064 РКОСКАН +033072 0000075 РКОСКАН +033612 0000075 РКОСКАН +033672 0000075 РКОСКАН +033772 0000075 РКОСКАН +034132 00000167 РКОСКАН +034132 00000167 РКОСКАН +034132 00000167 СОННОИ +034132 0000017 СОННОИ +034132 0000017 СОННОИ +034132 0000017 СОННОИ +034132 0000017 СОННОИ +034132 0000017 СОННОИ +034155 0000017 СОННОИ +034156 0000017 СОННОИ +03426 000001136 СОННОИ +03426 000001136 СОННОИ +03456 000001136 СОННОИ +035671 0000016 СОННОИ +035671 00000113 СОННОИ +035671 00000113 СОННОИ +035676 00001113	РКОСКАН + 033074 0000110 РКОСКАН + 033024 0000110 РКОСКАН + 033612 0000055 РКОСКАН + 033612 0000075 РКОСКАН + 033672 0000075 РКОСКАН + 033672 0000075 РКОСКАН + 033672 0000075 РКОСКАН + 033672 0000075 РКОСКАН + 034132 00000167 СОННОИ + 034132 0000011 СОННОИ + 034132 0000011 СОННОИ + 034155 0000007 СОННОИ + 034154 0000017 СОННОИ + 034154 0000017 СОННОИ + 034214 0000017 СОННОИ + 03422 0000017 СОННОИ + 034217 0000017 СОННОИ + 03456 0000017 СОННОИ + 03456 0000017 СОННОИ + 03551 000011 СОННОИ + 03551 000011	PROGRAM + 033074	PROGRAM + 0330745	РКОСКАН +033076 0000064 РКОСКАН +033076 0000064 РКОСКАН +033072 0000073 РКОСКАН +033512 0000075 РКОСКАН +033577 0000075 РКОСКАН +033577 0000075 РКОСКАН +033577 0000075 РКОСКАН +03357 0000075 РКОСКАН +03357 0000075 СОННОИ +034132 00000167 СОННОИ +034132 0000017 СОННОИ +034132 0000017 СОННОИ +034137 0000017 СОННОИ +034137 0000017 СОННОИ +034137 0000017 СОННОИ +034137 0000017 СОННОИ +034137 0000017 СОННОИ +03425 0000017 СОННОИ +034213 0000017 СОННОИ +03425 0000017 СОННОИ +03425 0000017 СОННОИ +034211 0000017 СОННОИ +03425 0000017 СОННОИ +03425 0000017 СОННОИ +035407 0000111
PROGRAM + 033245   0000151   PROGRAM + 033254   0000164   PROGRAM + 033324   0000165   PROGRAM + 033324   0000165   PROGRAM + 033324   0000165   PROGRAM + 033324   00000173   PROGRAM + 033427   0000015   PROGRAM + 033427   0000015   PROGRAM + 033427   0000015   PROGRAM + 033427   0000015   PROGRAM + 033427   0000017   OOMION + 034132   0000017   OOMION + 034134   OOMION +	PROGRAM + 033245   0000151   PROGRAM + 033254   0000164   PROGRAM + 033324   0000165   PROGRAM + 033324   0000165   PROGRAM + 033324   0000165   PROGRAM + 033324   0000015   PROGRAM + 033324   0000015   PROGRAM + 033422   0000015   PROGRAM + 033422   0000016   PROGRAM + 033424   0000016   PROGRAM + 034132   0000016   PROGRAM + 034132   0000016   PROGRAM + 034132   0000016   PROGRAM + 034132   0000017   PROGRAM + 034132   0000017   PROGRAM + 034132   0000017   PROGRAM + 034134   0000017   PROGRAM + 034134   0000017   PROGRAM + 03424   0000017   PROGRAM + 03424   0000017   PROGRAM + 03424   0000017   PROGRAM + 03424   0000017   PROGRAM + 03425   0000017   PROGRAM + 03424   DROGRAM + 0342	РАОСЯДИ         + 033274         0000151           РАОСЯДИ         + 033274         0000164           РАОСЯДИ         + 03326         0000162           РАОСЯДИ         + 03334         0000256           РАОСЯДИ         + 03337         0000055           РАОСЯДИ         + 03412         0000016           РАОСЯДИ         + 03413         0000017           РАОСЯДИ         + 03413         0000017           СОННОИ         + 03413         0000011           СОННОИ         + 03415         0000011           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03426         000001           СОННОИ         + 034215         000001           СОННОИ         + 03422         000001	РАОСЯКИ         + 033745         0000131           РАОСЯКИ         + 033076         0000164           РАОСЯКИ         + 033374         0000162           РАОСЯКИ         + 033376         0000165           РАОСЯКИ         + 03377         0000075           РАОСЯКИ         + 03412         0000016           РАОСЯКИ         + 03413         0000016           РАОСЯКИ         + 03413         0000017           СОННОИ         + 03413         0000017           СОННОИ         + 03413         0000017           СОННОИ         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03421         000001           СОННОИ         + 03421         000001           СОННОИ         + 03421         000001           СОННОИ         + 03421         000001           СОННОИ         + 03425         00001 <td>  PROGRAM + 133745   D000151   PROGRAM + 133162   D000164   PROGRAM + 133162   D000110   PROGRAM + 133162   D000110   PROGRAM + 133162   D000110   PROGRAM + 133162   D000110   PROGRAM + 133172   D0000165   PROGRAM + 133172   D0000165   PROGRAM + 133172   D0000165   PROGRAM + 133172   D000011   PROGRAM + 133172   D000011   PROGRAM + 133172   D000011   PROGRAM + 133172   D000011   D000111   D0000111   D0000111  </td> <td>РАОСЯКИ         + 033745         0000151           РАОСЯКИ         + 033076         0000164           РАОСЯКИ         + 033162         0000110           РАОСЯКИ         + 033176         0000165           РАОСЯКИ         + 03412         0000015           РАОСЯКИ         + 03412         0000015           РАОСЯКИ         + 03412         0000016           РАОСЯКИ         + 03413         0000017           РАОСЯКИ         + 03413         0000017           РАОСЯКИ         + 03413         0000017           СОННОИ         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03426         000001</td>	PROGRAM + 133745   D000151   PROGRAM + 133162   D000164   PROGRAM + 133162   D000110   PROGRAM + 133162   D000110   PROGRAM + 133162   D000110   PROGRAM + 133162   D000110   PROGRAM + 133172   D0000165   PROGRAM + 133172   D0000165   PROGRAM + 133172   D0000165   PROGRAM + 133172   D000011   PROGRAM + 133172   D000011   PROGRAM + 133172   D000011   PROGRAM + 133172   D000011   D000111   D0000111	РАОСЯКИ         + 033745         0000151           РАОСЯКИ         + 033076         0000164           РАОСЯКИ         + 033162         0000110           РАОСЯКИ         + 033176         0000165           РАОСЯКИ         + 03412         0000015           РАОСЯКИ         + 03412         0000015           РАОСЯКИ         + 03412         0000016           РАОСЯКИ         + 03413         0000017           РАОСЯКИ         + 03413         0000017           РАОСЯКИ         + 03413         0000017           СОННОИ         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03426         000001
PROGRAM         +032745         0000151           PROGRAM         +03376         0000164           PROGRAM         +03316         0000164           PROGRAM         +03316         0000160           PROGRAM         +03316         0000160           PROGRAM         +03316         0000160           PROGRAM         +03317         0000017           PROGRAM         +03317         0000016           PROGRAM         +03317         0000016           PROGRAM         +03312         0000016           PROGRAM         +03412         0000016           PROGRAM         +03413         000001           COHHON         +03413         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03416         000001           COHHON         +03416         000001           COHHON         +03421         000001           COHHON         +03421         000001           COHHON         +03421         000001           <	PROGRAM         +032745         0000151           PROGRAM         +03376         0000164           PROGRAM         +03316         0000164           PROGRAM         +03316         0000164           PROGRAM         +03316         0000165           PROGRAM         +03316         0000165           PROGRAM         +03312         0000016           PROGRAM         +03412         0000016           COHHON         +03412         0000017           COHHON         +03412         0000017           COHHON         +03416         0000017           COHHON         +03416         0000011           COHHON         +03417         000001           COHHON         +034204         000001           COHHON         +034214         000001           COHHON         +034214         000001           COHHON         +034214         000001           COHHON         +03421         000001	PROGRAM + 032745	PROGRAM + 032745	РАОСЯКИ         +332745         0000151           РАОСЯКИ         +03376         0000164           РАОСЯКИ         +03316         0000164           РАОСЯКИ         +03316         0000165           РАОСЯКИ         +03317         0000173           РАОСЯКИ         +03317         00000173           РАОСЯКИ         +03317         0000017           РАОСЯКИ         +03412         0000016           РАОСЯКИ         +034132         0000017           РАОСЯКИ         +034132         0000017           СОННОИ         +034154         0000017           СОННОИ         +034154         0000017           СОННОИ         +034155         0000001           СОННОИ         +034217         0000001           СОННОИ         +034217         0000001           СОННОИ         +03425         0000010           СОННОИ         +03426         0000010     <	PROGRAM + 032745
PROGRAM + 03.076	РАССКАН         + 03.076         0000054           РАССКАН         + 03.076         0000054           РАССКАН         + 03.076         0000162           РАССКАН         + 03.076         0000162           РАССКАН         + 03.076         0000165           РАССКАН         + 03.077         0000017           РАССКАН         + 03.412         0000016           РАССКАН         + 03.412         0000017           РАССКАН         + 03.412         0000017           РАССКАН         + 03.412         0000017           СОННОИ         + 03.415         0000011           СОННОИ         + 03.424         000001           СОННОИ         + 03.424         000001           СОННОИ         + 03.424	РОСКАН         +03275         000064           РОСКАН         +03276         000064           РОСКАН         +033162         000064           РОСКАН         +033162         000064           РОСКАН         +033612         000065           РОСКАН         +033612         000065           РОСКАН         +033612         000065           РОСКАН         +033612         000065           РОСКАН         +033612         000067           РОСКАН         +033677         000067           РОСКАН         +03412         000067           РОСКАН         +03412         000067           РОННОИ         +03415         000067           СОННОИ         +03415         000067           СОННОИ         +03415         000067           СОННОИ         +03415         000001           СОННОИ         +03421         000001           СОННОИ         +03421         000001           СОННОИ	РАОСКАН         + 032745         000064           РАОСКАН         + 032276         000064           РАОСКАН         + 03326         000064           РАОСКАН         + 03362         000066           РАОСКАН         + 03362         000066           РАОСКАН         + 03362         000066           РАОСКАН         + 03362         000067           РАОСКАН         + 03362         000067           РАОСКАН         + 03367         000067           РАОСКАН         + 03367         000067           РАОСКАН         + 03367         000067           РАОСКАН         + 03412         000067           РАОСКАН         + 03412         000067           РАОСКАН         + 03412         000067           РАОСКАН         + 03412         000067           РАОСКАН         + 03415         000067           РАОНОН         + 03415         000067           РАОНОН         + 03415         000067           РАНОН         + 03415         000067           РАНОН         + 03415         000067           РАНОН         + 03415         000067           РАНОН         + 03415         000067      <	PROGRAM + 03.076	РАССКАН         + 032745         0000054           РАССКАН         + 03276         0000055           РАССКАН         + 03324         000011           РАССКАН         + 03324         000055           РАССКАН         + 03324         000055           РАССКАН         + 03347         000005           РАССКАН         + 03407         0000014           РАССКАН         + 03407         0000014           РАССКАН         + 03407         0000014           РАССКАН         + 03412         0000017           СОННОИ         + 03412         0000017           СОННОИ         + 03415         0000017           СОННОИ         + 03415         000001           СОННОИ         + 03426         000001           СОННОИ         + 03421         000001           СОННОИ         + 03426         000001           СОННОИ         + 03426         000001           СОННОИ         + 03426         000001
PROGRAM + 133740 0000015	РКОСКАН         + 13374         0000015           РКОСКАН         + 13374         0000110           РКОСКАН         + 13374         0000110           РКОСКАН         + 13316         0000110           РКОСКАН         + 13317         0000110           РКОСКАН         + 13317         000016           РКОСКАН         + 13377         0000016           РКОСКАН         + 13412         000016           РКОСКАН         + 13412         000016           РКОСКАН         + 13412         000016           РКОСКАН         + 13412         000016           РКОСКАН         + 13412         000017           РКОСКАН         + 13412         000017           РКОСКАН         + 13412         000017           СОННОИ         + 13415         000001           СОННОИ         + 13415         000001           СОННОИ         + 13415         000001           СОННОИ         + 13425         000001           СОННОИ         + 13421         000001           СОННОИ         + 13421         000001           СОННОИ         + 13421         000001           СОННОИ         + 13421         000001	РКОСКАН         + 13374         0000015           РКОСКАН         + 13374         0000015           РКОСКАН         + 13374         0000110           РКОСКАН         + 13374         0000110           РКОСКАН         + 13374         000015           РКОСКАН         + 13377         0000015           РКОСКАН         + 13377         0000015           РКОСКАН         + 134104         000011           СОННОМ         + 134132         000001           СОННОМ         + 134134         000001           СОННОМ         + 134135         000001	РКОСКАН         + 133746         0000015           РКОСКАН         + 132745         0000110           РКОСКАН         + 133746         0000110           РКОСКАН         + 133724         0000110           РКОСКАН         + 133724         0000110           РКОСКАН         + 13372         0000015           РКОСКАН         + 133772         0000016           РКОСКАН         + 133772         0000016           РКОСКАН         + 134132         0000016           РКОСКАН         + 134132         0000016           РКОСКАН         + 134132         000001           СОННОМ         + 134132         000001           СОННОМ         + 134137         000001           СОННОМ         + 134137         000001           СОННОМ         + 134137         000001           СОННОМ         + 134137         000001           СОННОМ         + 134217         000001           СОННОМ         + 13423	PROGRAM         +032745         0000015           PROGRAM         +033745         0000131           PROGRAM         +03324         0000110           PROGRAM         +03324         000015           PROGRAM         +03324         000015           PROGRAM         +03312         000015           PROGRAM         +03312         000015           PROGRAM         +03312         000015           PROGRAM         +03312         000015           PROGRAM         +03412         000016           PROGRAM         +03412         000017           PROGRAM         +03412         000017           PROGRAM         +03412         000017           COHHON         +03415         000017           COHHON         +03415         000001           COHHON         +03415         00001           COHO	РКОСКАН         + 133745         0000015           РКОСКАН         + 133776         0000015           РКОСКАН         + 13376         0000110           РКОСКАН         + 13316         0000110           РКОСКАН         + 13317         0000015           РКОСКАН         + 13377         0000015           РКОСКАН         + 13347         0000015           РКОСКАН         + 13413         0000017           СОННОМ         + 13421         0000
РКОСКАН         + 33745         0000015           РКОСКАН         + 332745         0000013           РКОСКАН         + 03302         00000110           РКОСКАН         + 033216         00000110           РКОСКАН         + 033212         00000110           РКОСКАН         + 033512         0000015           РКОСКАН         + 033772         0000075           РКОСКАН         + 034132         0000016           РКОСКАН         + 034132         0000016           РКОСКАН         + 034132         0000016           РКОСКАН         + 034132         0000017           РКОСКАН         + 034132         0000017           СОННОИ         + 034132         0000017           СОННОИ         + 034132         0000017           СОННОИ         + 034152         0000017           СОННОИ         + 034153         0000017           СОННОИ         + 034154         0000010           СОННОИ         + 034154         0000011           СОННОИ         + 034213         0000010           СОННОИ         + 034213         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РКОСКАН         + 033224         0000015           РКОСКАН         + 03412         0000015           РКОСКАН         + 03412         0000015           РКОСКАН         + 03412         0000015           РКОСКАН         + 03412         0000016           РКОСКАН         + 03412         0000016           РКОСКАН         + 03414         0000016           РКОСКАН         + 03415         0000017           РКОСКАН         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03426         000001           СОННОИ         + 034214         000001           СОННОИ         + 034226         000001           СОННОИ         + 03423         000001           СОННОИ         + 03423         000001           СОННОИ         + 034226         <td< td=""><td>РКОСКАН         + 332745         0000013           РКОСКАН         + 332745         0000131           РКОСКАН         + 03305         0000110           РКОСКАН         + 03316         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 03324         0000015           РКОСКАН         + 03324         0000014           РКОСКАН         + 03412         0000014           РКОСКАН         + 03412         0000014           РКОСКАН         + 03412         0000014           РКОСКАН         + 03412         0000017           РКОСКАН         + 03412         0000017           СОННОИ         + 03413         0000017           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03417         000001           СОННОИ         + 03424         000001           СОННОИ         + 03424         000001           СОННОИ         + 03424         000001           СОННОИ         + 03424         000001</td><td>РКОСКАН         + 332745         0000011           РКОСКАН         + 1332745         0000013           РКОСКАН         + 13306      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      СОННОИ         + 03416         000001           СОННОИ         + 03421         000001           СОННОИ         + 03421         000001           СОННОИ         + 03421         000001           СОННОИ         + 034226         000001           СОННОИ         + 034227         000
РКОСКАН + 13374 000015 РКОСКАН + 13375 000016 РКОСКАН + 13375 000016 РКОСКАН + 13375 000016 РКОСКАН + 13375 000016 РКОСКАН + 13377 000017 РКОСКАН + 13377 000016 РКОСКАН + 13477 000016 СОННОИ + 13415 0000017 СОННОИ + 13415 0000017 СОННОИ + 13415 0000017 СОННОИ + 13415 0000017 СОННОИ + 13426 000011 СОННОИ + 13426 000012 СОННОИ + 13426 000012 СОННОИ + 13426 000012 СОННОИ + 13427 0000012 СОННОИ + 13426 000012 СОННОИ + 13427 0000012 СОННОИ + 13456 0000113 СОННОИ + 135476 000012 СОННОИ + 135476 000012 СОННОИ + 13565 0000111 СОННОИ + 13565 0000113	PROGRAM	РКОСКАН + 13374 000015 РКОСКАН + 13375 000016 РКОСКАН + 13375 000016 РКОСКАН + 13375 000016 РКОСКАН + 13375 000016 РКОСКАН + 13377 000016 РКОСКАН + 13377 000016 РКОСКАН + 13377 000017 РКОСКАН + 13377 000016 РКОСКАН + 13377 000016 СОННОИ + 13377 000016 СОННОИ + 13377 000001 СОННОИ + 13417 000001 СОННОИ + 13417 000001 СОННОИ + 13426 000011 СОННОИ + 13426 000011 СОННОИ + 13426 000011 СОННОИ + 13426 000016 СОННОИ + 13426 000016 СОННОИ + 13456 000016 СОННОИ + 13456 000016 СОННОИ + 13456 000016 СОННОИ + 13456 000016 СОННОИ + 13551 000016 СОННОИ + 13551 000016 СОННОИ + 13551 000016 СОННОИ + 13551 000011	PROGRAM	РКОСКАН + 13274 000015 PROCRAH + 13376 000016 PROCRAH + 13376 000016 PROCRAH + 13326 000016 PROCRAH + 13326 000016 PROCRAH + 13326 000016 PROCRAH + 13326 000016 PROCRAH + 13327 0000016 PROCRAH + 13327 0000016 PROCRAH + 13377 0000016 PROCRAH + 13377 0000016 PROCRAH + 13377 0000016 PROCRAH + 13472 0000016 PROCRAH + 13472 000001 PROCRAH + 13470 00001 PROCRAH + 13470 000001 PROCRAH + 13470 0	PROGRAM
РКОСКАН         + 623749         0000015           РКОСКАН         + 032749         0000101           РКОСКАН         + 033749         0000110           РКОСКАН         + 033274         0000015           РКОСКАН         + 033274         0000016           РКОСКАН         + 033374         0000016           РКОСКАН         + 033374         0000016           РКОСКАН         + 033374         0000016           РКОСКАН         + 033374         0000016           РКОСКАН         + 03342         0000016           РКОСКАН         + 03404         0000016           РКОСКАН         + 03412         0000016           РКОСКАН         + 03412         0000016           РКОСКАН         + 03412         000001           РКОСКАН         + 03413         000001           СОННОМ         + 03413         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03429         000001           СОННОМ         + 03429         0000	РКОСКАН         + 623740         0000015           РКОСКАН         + 633740         0000015           РКОСКАН         + 633745         0000110           РКОСКАН         + 633274         0000016           РКОСКАН         + 633376         0000016           РКОСКАН         + 633376         0000016           РКОСКАН         + 633377         0000017           РКОСКАН         + 633377         0000016           РКОСКАН         + 633377         0000016           РКОСКАН         + 633472         0000016           РКОСКАН         + 633472         0000016           РКОСКАН         + 633472         0000016           РКОСКАН         + 63440         0000017           РКОСКАН         + 63442         0000017           РКОСКАН         + 63412         0000017           СОННОМ         + 63417         0000017           СОННОМ         + 63417         000001           СОННОМ         + 63424         000001           СОННОМ         + 63424         000001           СОННОМ         + 63426         00001           СОННОМ         + 63426         00001           СОННОМ         + 63426	PROGRAM + 0.32745	РКОСКАН         + 623749         0000015           РКОСКАН         + 633749         0000016           РКОСКАН         + 633749         0000110           РКОСКАН         + 633749         000016           РКОСКАН         + 633749         000016           РКОСКАН         + 633749         000016           РКОСКАН         + 633749         000016           РКОСКАН         + 63374         000007           РКОСКАН         + 63377         000007           РКОСКАН         + 63377         0000016           РКОСКАН         + 63377         0000016           РКОСКАН         + 63470         0000016           РКОСКАН         + 63470         0000017           РКОСКАН         + 63413         000001           СОННОИ         + 63415         000001           СОННОИ         + 63415         000001           СОННОИ         + 63415         000001           СОННОИ         + 63421         000001           СОННОИ         + 63421         000001           СОННОИ         + 63425         000001           СОННОИ         + 63425         000001           СОННОИ         + 63425         000001	РКОСКАН         + 623749         0000015           РКОСКАН         + 032749         0000101           РКОСКАН         + 033749         0000110           РКОСКАН         + 033374         0000064           РКОСКАН         + 033374         0000064           РКОСКАН         + 033374         0000065           РКОСКАН         + 033374         0000065           РКОСКАН         + 033374         0000065           РКОСКАН         + 033374         0000067           РКОСКАН         + 033412         0000016           РКОСКАН         + 03413         0000017           РКОСКАН         + 03413         0000017           РКОСКАН         + 03413         0000017           РКОСКАН         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03421         000001           СОННОИ         + 03426         0000	РКОСКАН         + 622745         0000015           РКОСКАН         + 632745         0000101           РКОСКАН         + 633774         0000016           РКОСКАН         + 633774         0000016           РКОСКАН         + 633774         0000016           РКОСКАН         + 63376         0000016           РКОСКАН         + 63377         0000016           РКОСКАН         + 63377         0000016           РКОСКАН         + 63377         0000016           РКОСКАН         + 63377         0000016           РКОСКАН         + 63477         0000016           РКОСКАН         + 63417         0000016           РКОСКАН         + 63412         000001           РКОСКАН         + 63412         000001           СОННОИ         + 63415         000001           СОННОИ         + 63415         000001           СОННОИ         + 63417         000001           СОННОИ         + 63417         000001           СОННОИ         + 63417         000001           СОННОИ         + 63417         000001           СОННОИ         + 63424         000001           СОННОИ         + 63424         000001
PROCEAN + 13370	РАОСКАН         +13370         0000131           РАОСКАН         +13274         0000131           РАОСКАН         +13274         0000131           РАОСКАН         +13307         0000142           РАОСКАН         +133162         0000142           РАОСКАН         +133162         000014           РАОСКАН         +133167         000011           РАОСКАН         +133167         000011           РАОСКАН         +133167         000011           РАОСКАН         +133167         000011           РАОСКАН         +133127         000011           РАОСКАН         +133127         000011           РАОСКАН         +133127         000011           РАОСКАН         +133127         000001           РАОСКАН         +133127         000001           РАОСКАН         +134127         000001           СОННОИ         +134129         000001           СОННОИ         +134121         000001           СОННОИ         +134124         000001           СОННОИ         +134129         000001           СОННОИ         +134129         000001           СОННОИ         +134219         000001	PAGGRAH         +13370         D000015           PAGGRAH         +03274         0000015           PAGGRAH         +03274         0000011           PAGGRAH         +03274         0000011           PAGGRAH         +03326         0000064           PAGGRAH         +033316         0000065           PROGRAH         +033317         0000065           PROGRAH         +033612         0000065           PROGRAH         +033612         0000065           PROGRAH         +033167         0000065           PROGRAH         +033612         0000065           PROGRAH         +033677         0000016           PROGRAH         +03312         0000016           PROGRAH         +03412         0000016           COHHON         +03415         000001           COHHON         +03421         000001           COHHON         +03421         000001 <tr< td=""><td>  PROGRAM + 133730</td><td>  PROCEAN + 13370</td><td>PADGRAM         +0.3370         D000013           PADGRAM         +0.3274         D000013           PADGRAM         +0.3274         D000015           PADGRAM         +0.3274         D000055           PADGRAM         +0.3274         D000055           PADGRAM         +0.3274         D000055           PADGRAM         +0.3567         D000016           PADGRAM         +0.3472         D000017           PADGRAM         +0.3412         D000017           COHHON         +0.3415         D000017           COHHON         +0.3415         D000017           COHHON         +0.3415         D000017           COHHON         +0.3415         D000017           COHHON         +0.3416         D00001           COHHON         +0.3426         D00001           COHHON         +0.3421         D00001           COHHON         +0.3426         D00001           COHHON         +0.3426         D00001</td></tr<>	PROGRAM + 133730	PROCEAN + 13370	PADGRAM         +0.3370         D000013           PADGRAM         +0.3274         D000013           PADGRAM         +0.3274         D000015           PADGRAM         +0.3274         D000055           PADGRAM         +0.3274         D000055           PADGRAM         +0.3274         D000055           PADGRAM         +0.3567         D000016           PADGRAM         +0.3472         D000017           PADGRAM         +0.3412         D000017           COHHON         +0.3415         D000017           COHHON         +0.3415         D000017           COHHON         +0.3415         D000017           COHHON         +0.3415         D000017           COHHON         +0.3416         D00001           COHHON         +0.3426         D00001           COHHON         +0.3421         D00001           COHHON         +0.3426         D00001           COHHON         +0.3426         D00001
РАОСКАН         + 03270         DD00030           РАОСКАН         + 032740         DD00015           РАОСКАН         + 03374         D000115           РАОСКАН         + 033076         D000110           РАОСКАН         + 033076         D000110           РАОСКАН         + 033076         D00017           РАОСКАН         + 033612         D00017           РАОСКАН         + 033677         D00007           РАОСКАН         + 033472         D000016           РАОСКАН         + 034120         D000017           РАОСКАН         + 034121         D000017           РАОСКАН         + 034121         D000017           СОННОИ         + 034121         D000017           СОННОИ         + 034159         D000011           СОННОИ         + 034154         D000011           СОННОИ         + 034156         D000012           СОННОИ         + 03426         D000012           СОННОИ         + 03424	PADGRAH         + 0.3270         DD00030           PROGRAH         + 0.3270         DD00015           PROGRAH         + 0.3274         D00015           PROGRAH         + 0.3374         D00015           PROGRAH         + 0.3374         D00015           PROGRAH         + 0.3374         D00015           PROGRAH         + 0.3317         D000015           PROGRAH         + 0.3317         D00007           PROGRAH         + 0.3417         D000015           PROGRAH         + 0.3417         D000015           PROGRAH         + 0.3417         D000016           PROGRAH         + 0.3417         D000017           PROGRAH         + 0.3417         D000017           PROGRAH         + 0.3417         D000017           COHHON         + 0.3415         D000017           COHHON         + 0.3415         D000017           COHHON         + 0.3415         D000010           COHHON         + 0.3415         D000010           COHHON         + 0.3421         D000010           COHHON         + 0.3421         D000010           COHHON         + 0.3421         D000010           COHHON         + 0.3421	РАОСКАН         + 0.3270         DD00030           РАОСКАН         + 0.3270         DD00015           РАОСКАН         + 0.3274         D000110           РАОСКАН         + 0.3374         D000110           РАОСКАН         + 0.3374         D000110           РАОСКАН         + 0.3374         D000110           РАОСКАН         + 0.3377         D000110           РАОСКАН         + 0.3412         D000116           РАОСКАН         + 0.3413         D000017           РАОСКАН         + 0.3413         D000011           РАОСКАН         + 0.3413         D000011           РАОСКАН         + 0.3413         D000011           СОННОИ         + 0.3413         D000011           СОННОИ         + 0.3413         D000011           СОННОИ         + 0.3413         D000010           СОННОИ         + 0.3413         D000011           СОННОИ         + 0.3413         D000001           СОННОИ         + 0.3413 <td>РАОСКАН         + 13270         DE00030           РАОСКАН         + 13274         DE00015           РАОСКАН         + 13374         DE00015           РАОСКАН         + 133076         DE00016           РАОСКАН         + 133162         DE00016           РАОСКАН         + 133176         DE00016           РАОСКАН         + 13367         DE00016           РАОСКАН         + 13367         DE00016           РАОСКАН         + 13372         DE00016           РАОСКАН         + 13377         DE00016           РАОСКАН         + 13377         DE00016           РАОСКАН         + 13417         DE00016           РАОСКАН         + 13412         DE00016           РАОСКАН         + 13417         DE00016           СОННОИ         + 13417         DE00017           СОННОИ         + 13417         DE00017           СОННОИ         + 13417         DE00011           СОННОИ         + 13421         DE0</td> <td>РАОСКАН         + 13270         DE00030           РАОСКАН         + 13274         DE00015           РАОСКАН         + 13374         DE00015           РАОСКАН         + 133076         DE00016           РАОСКАН         + 133076         DE00016           РАОСКАН         + 133076         DE00016           РАОСКАН         + 133076         DE00016           РАОСКАН         + 133677         DE00005           РАОСКАН         + 133677         DE00007           РАОСКАН         + 133677         DE00001           РАОСКАН         + 133677         DE00007           РАОСКАН         + 133677         DE00007           РАОСКАН         + 133412         DE00007           СОННОИ         + 133412         DE00007           СОННОИ         + 133412         DE00007           СОННОИ         + 133424         DE00001           СОННОИ         + 133424&lt;</td> <td>РАОСКАН         + 0.3270         DD00030           РАОСКАН         + 0.3270         DD00015           РАОСКАН         + 0.3274         D000110           РАОСКАН         + 0.3374         D000110           РАОСКАН         + 0.3324         D000110           РАОСКАН         + 0.3324         D000110           РАОСКАН         + 0.3324         D000110           РАОСКАН         + 0.3317         D000110           РАОСКАН         + 0.3417         D000014           РАОСКАН         + 0.3413         D000016           РАОСКАН         + 0.3413         D000011           РАОСКАН         + 0.3413         D000011           РАОСКАН         + 0.3413         D000011           СОННОИ         + 0.3413         D000011           СОННОИ         + 0.3413         D000010           СОННОИ         + 0.3413         D000001           СОННОИ         + 0.3413</td>	РАОСКАН         + 13270         DE00030           РАОСКАН         + 13274         DE00015           РАОСКАН         + 13374         DE00015           РАОСКАН         + 133076         DE00016           РАОСКАН         + 133162         DE00016           РАОСКАН         + 133176         DE00016           РАОСКАН         + 13367         DE00016           РАОСКАН         + 13367         DE00016           РАОСКАН         + 13372         DE00016           РАОСКАН         + 13377         DE00016           РАОСКАН         + 13377         DE00016           РАОСКАН         + 13417         DE00016           РАОСКАН         + 13412         DE00016           РАОСКАН         + 13417         DE00016           СОННОИ         + 13417         DE00017           СОННОИ         + 13417         DE00017           СОННОИ         + 13417         DE00011           СОННОИ         + 13421         DE0	РАОСКАН         + 13270         DE00030           РАОСКАН         + 13274         DE00015           РАОСКАН         + 13374         DE00015           РАОСКАН         + 133076         DE00016           РАОСКАН         + 133076         DE00016           РАОСКАН         + 133076         DE00016           РАОСКАН         + 133076         DE00016           РАОСКАН         + 133677         DE00005           РАОСКАН         + 133677         DE00007           РАОСКАН         + 133677         DE00001           РАОСКАН         + 133677         DE00007           РАОСКАН         + 133677         DE00007           РАОСКАН         + 133412         DE00007           СОННОИ         + 133412         DE00007           СОННОИ         + 133412         DE00007           СОННОИ         + 133424         DE00001           СОННОИ         + 133424<	РАОСКАН         + 0.3270         DD00030           РАОСКАН         + 0.3270         DD00015           РАОСКАН         + 0.3274         D000110           РАОСКАН         + 0.3374         D000110           РАОСКАН         + 0.3324         D000110           РАОСКАН         + 0.3324         D000110           РАОСКАН         + 0.3324         D000110           РАОСКАН         + 0.3317         D000110           РАОСКАН         + 0.3417         D000014           РАОСКАН         + 0.3413         D000016           РАОСКАН         + 0.3413         D000011           РАОСКАН         + 0.3413         D000011           РАОСКАН         + 0.3413         D000011           СОННОИ         + 0.3413         D000011           СОННОИ         + 0.3413         D000010           СОННОИ         + 0.3413         D000001           СОННОИ         + 0.3413
PROGRAM + 132745   DE0015   PROGRAM + 132745   DE0016   PROGRAM + 132745   DE0011   DE0015   PROGRAM + 133745   DE0011	РАОСКАН         + 13374         DE00030           РАОСКАН         + 13374         DE00015           РАОСКАН         + 13374         DE00016           РАОСКАН         + 13374         DE00011           РАОСКАН         + 13374         DE00011           РАОСКАН         + 13374         DE00011           РАОСКАН         + 13374         DE00011           РАОСКАН         + 13372         DE00011           РАОСКАН         + 13377         DE00011           РАОСКАН         + 13377         DE00014           РАОСКАН         + 13412         DE00015           РАОСКАН         + 13413         DE00016           РАОСКАН         + 13413         DE00017           СОННОИ         + 13413         DE00011           СОННОИ         + 13413         DE00011           СОННОИ         + 13424         DE00011           СОННОИ         + 13424         DE00011	РАОСКАН         + 13374         DE00030           РАОСКАН         + 13374         DE00015           РАОСКАН         + 13374         DE00011           РАОСКАН         + 13374         DE00011           РАОСКАН         + 13374         DE00011           РАОСКАН         + 13374         DE00011           РАОСКАН         + 13362         DE00011           РАОСКАН         + 13362         DE00005           РАОСКАН         + 13377         DE0007           РАОСКАН         + 13407         DE0007           РАОСКАН         + 13407         DE0007           РАОСКАН         + 13407         DE0007           РАОСКАН         + 13407         DE0007           РАОСКАН         + 13412         DE00007           РАОСКАН         + 13412         DE00007           РАОСКАН         + 13412         DE00007           СОННОМ         + 13412         DE000007<	PROGRAM + 133745   DE00115   PROGRAM + 133745   DE00115   PROGRAM + 133745   DE00115   PROGRAM + 133745   DE00115   PROGRAM + 1335745   DE00115   PROGRAM + 133574   DE00115   PROGRAM + 133772   DE00115   PROGRAM + 133572   DE00115   PROGRAM + 133514   DE00115	PROGRAM + 133745   D000110   PROGRAM + 133672   D00010   PROGRAM + 133672   D00010   PROGRAM + 133672   D00010   PROGRAM + 133674   D00010   PROGRAM + 133612   D00010   PROGRAM + 133614   D00010   PROGRAM + 1336	РАОСКАН         + 132745         D00015           РАОСКАН         + 132745         D00015           РАОСКАН         + 133745         D000110           РАОСКАН         + 133076         D000110           РАОСКАН         + 133162         D000110           РАОСКАН         + 133172         D000055           РАОСКАН         + 133617         D000073           РАОСКАН         + 133772         D000075           РАОСКАН         + 133677         D000016           РАОСКАН         + 134132         D000016           РАОСКАН         + 134132         D000016           РАОСКАН         + 134132         D000016           СОННОМ         + 134132         D000016           СОННОМ         + 134132         D000016           СОННОМ         + 134132         D000011           СОННОМ         + 134155         D000001           СОННОМ         + 134125         D000001           СОННОМ         + 134213 </td
PROCRAM + 132745   DUBULS   PROCRAM + 132745   DUBULS   PROCRAM + 132745   DUBULS   PROCRAM + 1332745   DUBULS   PROCRAM + 1332745   DUBULS   PROCRAM + 1332745   DUBULS   PROCRAM + 1332745   DUBULS   PROCRAM + 133612   DUBULS   PROCRAM + 133613   DUBUL	PROCEAN + 133745   DOUGLES   PROCEAN + 133745   DOUGLES   PROCEAN + 133745   DOUGLES   PROCEAN + 133745   DOUGLES   PROCEAN + 1332745   DOUGLES   PROCEAN + 1333745   DOUGLES   PROCEAN + 133572   DOUGLES   PROCEAN + 13	РАОСКАН         + 133745         0000131           РАОСКАН         + 132740         0000131           РАОСКАН         + 132745         0000131           РАОСКАН         + 133745         0000110           РАОСКАН         + 133745         0000110           РАОСКАН         + 133745         0000110           РАОСКАН         + 13372         0000110           РАОСКАН         + 13372         0000110           РАОСКАН         + 13377         0000075           РАОСКАН         + 13377         0000075           РАОСКАН         + 13377         0000075           РАОСКАН         + 13377         0000075           РАОСКАН         + 133414         0000075           РАОСКАН         + 13412         0000075           РАОСКАН         + 13412         0000075           РАОСКАН         + 13412         0000075           РАОСКАН         + 13412         0000077           РАОСКАН         + 13412         000007           СОННОИ         + 13412         0000007           СОННОИ         + 134214         0000007           СОННОИ         + 134214         0000001           СОННОИ         + 134217	РАОСКАН         + 13.2745         0000131           РАОСКАН         + 13.2745         0000131           РАОСКАН         + 13.2745         0000110           РАОСКАН         + 13.2745         0000110           РАОСКАН         + 13.3745         0000110           РАОСКАН         + 13.3745         0000110           РАОСКАН         + 13.372         0000110           РАОСКАН         + 13.372         0000110           РАОСКАН         + 13.377         0000017           РАОСКАН         + 13.347         0000017           РАОСКАН         + 13.377         0000017           РАОСКАН         + 13.3417         0000017           РАОСКАН         + 13.3417         0000017           СОННОИ         + 13.415         0000017           СОННОИ         + 13.415         0000017           СОННОИ         + 13.415         0000017           СОННОИ         + 13.415         0000017           СОННОИ         + 13.417         0000017           СОННОИ         + 13.424         0000010           СОННОИ         + 13.424         0000010           СОННОИ         + 13.424         0000011           СОННОИ         + 1	PROCEAN + 133745   DOUGLES   PROCEAN + 13372   DOUGLES   PROCEAN + 1334155   DOUGLES   DOUGLES   PROCEAN + 134154   DOUGLES   DO	PROCRAM + 133745   DUBLIS   PROCRAM + 133745   DUBLIS   PROCRAM + 133245   DUBLIS   PROCRAM + 133245   DUBLIS   PROCRAM + 133245   DUBLIS   PROCRAM + 133245   DUBLIS   DUBLIS   DROCRAM + 13352   DUBLIS   DUBLIS   DROCRAM + 13352   DUBLIS   DUBULIS   DUBLIS   DUBLIS   DUBLIS   DUBULIS   DUBLIS   DUBLIS   DUB
PROGRAM + 132545   0000133   PROGRAM + 132745   0000131   PROGRAM + 132745   0000131   PROGRAM + 132745   0000142   PROGRAM + 133745   0000142   PROGRAM + 133076   0000142   PROGRAM + 133076   0000142   PROGRAM + 133072   0000165   PROGRAM + 133072   0000167   PROGRAM + 133072   000017   PROGRAM + 133072   000017   PROGRAM + 1034132   000017   PROGRAM + 1034155   000017   PROGRAM + 1034154   000017   PROGRAM + 103421   DROGRAM + 103426   DROGRAM + 103421   DROGRAM + 10	PROGRAM + 132545   0000133   PROGRAM + 132745   0000131   PROGRAM + 132745   0000131   PROGRAM + 132745   0000151   PROGRAM + 132745   0000151   PROGRAM + 133274   0000152   PROGRAM + 133274   0000152   PROGRAM + 133274   0000152   PROGRAM + 133272   0000152   PROGRAM + 133272   0000152   PROGRAM + 133472   0000152   PROGRAM + 133472   0000152   PROGRAM + 133472   0000152   PROGRAM + 133412   PROGRAM + 133414   PROGRAM +	PROGRAM         +0.32545         00000133           PROGRAM         +0.32745         00000131           PROGRAM         +0.32745         00000164           PROGRAM         +0.32745         00000164           PROGRAM         +0.33274         0000110           PROGRAM         +0.3326         0000110           PROGRAM         +0.3326         0000110           PROGRAM         +0.3327         0000055           PROGRAM         +0.3427         000007           PROGRAM         +0.3413         000007           PROGRAM         +0.3412         000007           COHHON         +0.3415         000007           COHHON         +0.3415         0000007           COHHON         +0.3415         0000007           COHHON         +0.3420         0000007           COHHON         +0.3420         0000007           COHHON         +0.3420         0000007           COHHON         +0.3420         0000	PROGRAM + 132545   0000133     PROGRAM + 132745   0000131     PROGRAM + 132745   0000131     PROGRAM + 133162   0000110     PROGRAM + 1331612   0000015     PROGRAM + 133172   0000015     PROGRAM + 133172   0000011     PROGRAM + 133172   0000011     PROGRAM + 133172   0000011     PROGRAM + 13317   0000011     PROGRAM + 13317   0000011     COMHON + 134175   0000010     COMHON + 134175   0000010     COMHON + 134217   000001     COMHON + 134216   000001     COMHON + 13421   000001     COMHON + 13456   000001	PROGRAM + 132545 0000133	PROGRAM         +0.32545         0000133           PROGRAM         +0.32545         0000131           PROGRAM         +0.32745         0000164           PROGRAM         +0.32745         0000161           PROGRAM         +0.32745         0000161           PROGRAM         +0.33274         0000165           PROGRAM         +0.3324         0000110           PROGRAM         +0.3324         0000165           PROGRAM         +0.3324         0000165           PROGRAM         +0.3427         000005           PROGRAM         +0.3427         000007           PROGRAM         +0.3427         000001           PROGRAM         +0.3427         000001           PROGRAM         +0.3412         000001           PROGRAM         +0.3412         000001           COHHON         +0.3415         000001           COHHON         +0.3415         000001           COHHON         +0.3416         000001           COHHON         +0.3426         000001           COHHON         +0.3427         000001           COHHON         +0.3426         00001           COHHON         +0.3423         00001
PROCRAM         +032545         0000133           PROCRAM         +032704         0000151           PROCRAM         +032745         0000164           PROCRAM         +03376         0000165           PROCRAM         +03377         000007           PROCRAM         +03372         0000016           PROCRAM         +03372         0000016           PROCRAM         +03372         0000016           PROCRAM         +03372         0000016           PROCRAM         +03412         000001           PROCRAM         +03412         000001           COMHON         +03415         000001           COMHON         +03415         000001           COMHON         +03415         000001           COMHON         +03421         000001           COMHON         +03421         000001           COMHON         +03421         000001           COMHON         +03421         000001	PROCRAM         + 032545         0000133           PROCRAM         + 032746         0000151           PROCRAM         + 033746         0000164           PROCRAM         + 033746         0000164           PROCRAM         + 033274         0000164           PROCRAM         + 033274         0000164           PROCRAM         + 033274         0000167           PROCRAM         + 033224         0000167           PROCRAM         + 033324         0000165           PROCRAM         + 033327         0000016           PROCRAM         + 033427         0000016           PROCRAM         + 033427         0000016           PROCRAM         + 033427         0000016           PROCRAM         + 03442         0000017           PROCRAM         + 03442         0000017           PROCRAM         + 03412         0000017           PROCRAM         + 03412         0000017           COHHON         + 03415         0000017           COHHON         + 03415         0000010           COHHON         + 03426         000010           COHHON         + 03426         000010           COHHON         + 03426	PROCRAM         + 035545         0000131           PROCRAM         + 035704         0000164           PROCRAM         + 035745         0000164           PROCRAM         + 03376         0000164           PROCRAM         + 03376         0000164           PROCRAM         + 03376         0000164           PROCRAM         + 03376         0000165           PROCRAM         + 03377         000005           PROCRAM         + 03377         000007           PROCRAM         + 03470         0000016           PROCRAM         + 03410         0000016           PROCRAM         + 03412         0000016           PROCRAM         + 03412         000001           PROCRAM         + 03412         000001           PROCRAM         + 03412         000001           COHHON         + 03415         000001           COHHON         + 03421         000001           COHHON         + 03421         000001           COHHON         + 03421         000001           COHHON         + 03421         000001           COHHON         + 03426         000001           COHHON         + 03426       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COHHON         + 03421         000001           COHHON         + 03424         000001	РАОСКАН         + 032545         0000133           РКОСКАН         + 032746         0000164           РКОСКАН         + 032746         0000164           РКОСКАН         + 03376         0000164           РКОСКАН         + 03376         0000164           РКОСКАН         + 03324         0000164           РКОСКАН         + 033374         0000165           РКОСКАН         + 033374         0000065           РКОСКАН         + 033374         0000065           РКОСКАН         + 033374         0000065           РКОСКАН         + 033374         0000065           РКОСКАН         + 033374         0000017           РКОСКАН         + 03412         0000016           РКОСКАН         + 03413         000001           РКОСКАН         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ        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РАОСКАН         +33545         0000131           РАОСКАН         +33745         0000131           РАОСКАН         +33740         0000131           РАОСКАН         +33740         0000131           РАОСКАН         +33740         0000142           РАОСКАН         +33740         0000142           РАОСКАН         +33740         0000142           РАОСКАН         +03404         000014           РАОСКАН         +03412         000011           СОННОИ         +03415         000001           СОННОИ         +03415         000001 <td< td=""><td>РАОСКАН         +33545         0000131           РАОСКАН         +33746         0000131           РАОСКАН         +33746         0000131           РАОСКАН         +33746         0000143           РАОСКАН         +33746         0000164           РАОСКАН         +034076         0000164           РАОСКАН         +034070         0000114           РАОСКАН         +034070         0000114           РАОСКАН         +034070         0000114           РАОСКАН         +034121         0000114           РАОСКАН         +034121         0000114           РАОСКАН         +034121         000011           РАОСКАН         +034122         000011           РАОСКАН         +034127         000001           СОННОИ         +034159         000001           СОННОИ         +03426         000001</td><td>PROGRAH         +33545         0000133           PROGRAH         +33545         0000131           PROGRAH         +33745         0000131           PROGRAH         +33745         0000142           PROGRAH         +033745         0000164           PROGRAH         +033745         0000164           PROGRAH         +033346         0000164           PROGRAH         +033346         0000065           PROGRAH         +033347         000007           PROGRAH         +033347         000007           PROGRAH         +033412         000007           PROGRAH         +033412         000007           PROGRAH         +033412         000001           PROGRAH         +03413         000001           PROGRAH         +03413         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03424         000001           COHHON         +03424         000001           COHHON         +03426         000001</td><td>РАОСКАН         +33545         0000133           РАОСКАН         +33545         0000131           РАОСКАН         +33745         0000131           РАОСКАН         +33745         0000142           РАОСКАН         +033745         0000164           РАОСКАН         +033745         0000164           РАОСКАН         +033167         0000164           РАОСКАН         +033167         0000015           РАОСКАН         +033167         0000016           РАОСКАН         +033167         0000016           РАОСКАН         +033167         0000016           РАОСКАН         +03317         0000016           РАОСКАН         +03317         0000016           РАОСКАН         +03317         0000016           РАОСКАН         +03415         000001           СОННОИ         +03415         000001      &lt;</td><td>  PROGRAM</td><td>  PROGRAM</td></td<>	РАОСКАН         +33545         0000131           РАОСКАН         +33746         0000131           РАОСКАН         +33746         0000131           РАОСКАН         +33746         0000143           РАОСКАН         +33746         0000164           РАОСКАН         +034076         0000164           РАОСКАН         +034070         0000114           РАОСКАН         +034070         0000114           РАОСКАН         +034070         0000114           РАОСКАН         +034121         0000114           РАОСКАН         +034121         0000114           РАОСКАН         +034121         000011           РАОСКАН         +034122         000011           РАОСКАН         +034127         000001           СОННОИ         +034159         000001           СОННОИ         +03426         000001	PROGRAH         +33545         0000133           PROGRAH         +33545         0000131           PROGRAH         +33745         0000131           PROGRAH         +33745         0000142           PROGRAH         +033745         0000164           PROGRAH         +033745         0000164           PROGRAH         +033346         0000164           PROGRAH         +033346         0000065           PROGRAH         +033347         000007           PROGRAH         +033347         000007           PROGRAH         +033412         000007           PROGRAH         +033412         000007           PROGRAH         +033412         000001           PROGRAH         +03413         000001           PROGRAH         +03413         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03424         000001           COHHON         +03424         000001           COHHON         +03426         000001	РАОСКАН         +33545         0000133           РАОСКАН         +33545         0000131           РАОСКАН         +33745         0000131           РАОСКАН         +33745         0000142           РАОСКАН         +033745         0000164           РАОСКАН         +033745         0000164           РАОСКАН         +033167         0000164           РАОСКАН         +033167         0000015           РАОСКАН         +033167         0000016           РАОСКАН         +033167         0000016           РАОСКАН         +033167         0000016           РАОСКАН         +03317         0000016           РАОСКАН         +03317         0000016           РАОСКАН         +03317         0000016           РАОСКАН         +03415         000001           СОННОИ         +03415         000001      <	PROGRAM	PROGRAM
PROGRAM + 035545   0000131   PROGRAM + 035745   0000014   PROGRAM + 035076   0000014   PROGRAM + 035076   0000014   PROGRAM + 035076   0000014   PROGRAM + 035070   0000014   PROGRAM + 0350	PROGRAM + 133545   0000133	PROGRAM + 133545   0000133	PROGRAM + 0.35545   0000131   PROGRAM + 0.35745   00000142   PROGRAM + 0.35745   00000142   PROGRAM + 0.35745   00000142   PROGRAM + 0.35745   0000014   PROGRAM + 0.35745   0000014   PROGRAM + 0.35745   0000014   PROGRAM + 0.3472   PROGR	PROGRAM + 035545   0000131   PROGRAM + 035745   00000142   PROGRAM + 035076   0000015   PROGRAM + 035076   0000015   PROGRAM + 035077   0000015   PROGRAM + 035077   0000015   PROGRAM + 035077   0000017   PROGRAM + 035070   0000017   PROGRAM + 035070   0000017   PROGRAM + 035071   0000017   PROGRAM + 035	PROGRAM + 132545   0000133
PROGRAM + 038414   0000131   PROGRAM + 038745   00001131   PROGRAM + 038746   00001131   PROGRAM + 038746   00001131   PROGRAM + 038746   0000115   PROGRAM + 038746   0000115   PROGRAM + 03816   0000116   PROGRAM + 038176   0000116   PROGRAM + 038172   000011   PROGRAM + 038172   000011   PROGRAM + 038172   000011   PROGRAM + 038172   000011   PROGRAM + 038171   DROUGGS   PROGRAM + 038171	PROGRAM         +0.35545         0000133           PROGRAM         +0.35745         0000133           PROGRAM         +0.35745         0000134           PROGRAM         +0.35746         0000134           PROGRAM         +0.35746         0000154           PROGRAM         +0.33166         0000164           PROGRAM         +0.33174         0000167           PROGRAM         +0.33176         0000165           PROGRAM         +0.33177         0000167           PROGRAM         +0.3417         0000167           PROGRAM         +0.3417         0000167           PROGRAM         +0.3413         0000167           PROGRAM         +0.3413         0000167           PROGRAM         +0.3413         000001           COHHON         +0.3413         000001           COHHON         +0.3415         000001           COHHON         +0.3415         000001           COHHON         +0.3415         000001           COHHON         +0.34215         000001           COHHON         +0.34216         000001           COHHON         +0.34216         000001           COHHON         +0.34216         00	PROGRAM + 035545   0000133   PROGRAM + 035745   0000133   PROGRAM + 035745   0000133   PROGRAM + 035745   0000135   PROGRAM + 035745   0000110   PROGRAM + 033076   0000110   PROGRAM + 033076   0000110   PROGRAM + 033072   0000015   PROGRAM + 033072   0000015   PROGRAM + 033072   0000015   PROGRAM + 033072   0000015   PROGRAM + 034132   0000016   PROGRAM + 034132   0000017   PROGRAM + 034155   0000017   PROGRAM + 03425   0000017   PROGRAM + 03425   0000017   PROGRAM + 03421   PROGRAM + 03425   DROGRAM + 03551   DROGRAM + 03551   DROGRAM + 03551   DROGRAM + 03551   DROGRAM + 03555   DROGRAM	PROGRAM + 038744   0000133   PROGRAM + 038744   0000133   PROGRAM + 038746   0000133   PROGRAM + 038746   0000135   PROGRAM + 038746   0000110   PROGRAM + 038072   0000110   PROGRAM + 038072   0000110   PROGRAM + 038072   0000075   PROGRAM + 038137   0000075   PROGRAM + 038132   0000075   PROGRAM + 038132   0000075   PROGRAM + 038132   0000010   PROGRAM + 038132   0000010   PROGRAM + 038132   0000011   PROGRAM + 03813   PROGRAM + 03	PROGRAM         +0.35545         0000133           PROGRAM         +0.35745         0000134           PROGRAM         +0.35745         0000134           PROGRAM         +0.35746         0000135           PROGRAM         +0.35746         0000136           PROGRAM         +0.33076         0000156           PROGRAM         +0.33162         0000110           PROGRAM         +0.33174         0000167           PROGRAM         +0.33172         0000016           PROGRAM         +0.33172         0000016           PROGRAM         +0.33172         0000016           PROGRAM         +0.34179         0000016           PROGRAM         +0.34172         0000017           COHHON         +0.34159         0000017           COHHON         +0.34159         0000017           COHHON         +0.34159         000001           COHHON         +0.34159	РАОСКАН         + 0.35545         0000133           РАОСКАН         + 0.35745         0000133           РАОСКАН         + 0.35746         0000131           РАОСКАН         + 0.35746         0000131           РАОСКАН         + 0.35746         0000110           РАОСКАН         + 0.35746         0000110           РАОСКАН         + 0.3516         0000110           РАОСКАН         + 0.3517         0000110           РАОСКАН         + 0.3417         0000015           РАОСКАН         + 0.3417         0000016           РАОСКАН         + 0.3413         0000016           РАОСКАН         + 0.3413         0000017           СОННОИ         + 0.3413         000001           СОННОИ         + 0.3415         000001           СОННОИ         + 0.3415         000001           СОННОИ         + 0.3415         000001           СОННОИ         + 0.3415         000001           СОННОИ         + 0.3425
PAGGRAM         +032414         0000131           PAGGRAM         +032545         0000131           PAGGRAM         +032745         0000131           PAGGRAM         +032745         0000113           PAGGRAM         +032745         0000112           PAGGRAM         +033745         0000114           PAGGRAM         +033745         0000114           PAGGRAM         +03316         0000114           PAGGRAM         +033172         000011           PAGGRAM         +033172         000011           PAGGRAM         +033172         0000015           PAGGRAM         +034132         0000016           COHHON         +034132         0000016           COHHON         +034132         0000016           COHHON         +034134         000001           COHHON         +034135         000001           COHHON         +034136         000001 <td>PAGGRAM         + 0325415         0000131           PAGGRAM         + 032545         0000131           PAGGRAM         + 032745         0000131           PAGGRAM         + 032745         0000115           PAGGRAM         + 033745         0000116           PAGGRAM         + 033745         0000117           PAGGRAM         + 03324         0000117           PAGGRAM         + 033124         0000117           PAGGRAM         + 033124         0000117           PAGGRAM         + 033124         0000117           PAGGRAM         + 033124         0000017           PAGGRAM         + 033124         0000017           PAGGRAM         + 033127         0000017           PAGGRAM         + 034132         0000017           PAGGRAM         + 034132         0000017           COHHON         + 03413         000001           COHHON         + 034214         000001           COHHON         + 034214</td> <td>  PROGRAM + 032545</td> <td>  PROGRAM + 032545</td> <td>PAGGRAM         +032414         0000131           PAGGRAM         +032545         0000133           PAGGRAM         +032746         0000143           PAGGRAM         +032746         0000143           PAGGRAM         +032746         0000140           PAGGRAM         +03374         0000140           PAGGRAM         +03374         0000110           PAGGRAM         +03374         0000110           PAGGRAM         +03374         0000110           PAGGRAM         +03324         0000110           PAGGRAM         +03314         0000110           PAGGRAM         +033172         000011           PAGGRAM         +033412         000001           PAGGRAM         +03412         000001           PAGGRAM         +03412         000001           PAGGRAM         +03413         000001           COHHON         +03415         000001</td> <td>  PROGRAM + 032545</td>	PAGGRAM         + 0325415         0000131           PAGGRAM         + 032545         0000131           PAGGRAM         + 032745         0000131           PAGGRAM         + 032745         0000115           PAGGRAM         + 033745         0000116           PAGGRAM         + 033745         0000117           PAGGRAM         + 03324         0000117           PAGGRAM         + 033124         0000117           PAGGRAM         + 033124         0000117           PAGGRAM         + 033124         0000117           PAGGRAM         + 033124         0000017           PAGGRAM         + 033124         0000017           PAGGRAM         + 033127         0000017           PAGGRAM         + 034132         0000017           PAGGRAM         + 034132         0000017           COHHON         + 03413         000001           COHHON         + 034214         000001           COHHON         + 034214	PROGRAM + 032545	PROGRAM + 032545	PAGGRAM         +032414         0000131           PAGGRAM         +032545         0000133           PAGGRAM         +032746         0000143           PAGGRAM         +032746         0000143           PAGGRAM         +032746         0000140           PAGGRAM         +03374         0000140           PAGGRAM         +03374         0000110           PAGGRAM         +03374         0000110           PAGGRAM         +03374         0000110           PAGGRAM         +03324         0000110           PAGGRAM         +03314         0000110           PAGGRAM         +033172         000011           PAGGRAM         +033412         000001           PAGGRAM         +03412         000001           PAGGRAM         +03412         000001           PAGGRAM         +03413         000001           COHHON         +03415         000001	PROGRAM + 032545
PAGGRAM + D32416	PAGGRAM + D32416	РАФСКАН         + 032414         0000133           РАФСКАН         + 03245         0000134           РАФСКАН         + 03274         0000131           РАФСКАН         + 03274         0000164           РАФСКАН         + 03274         0000164           РАФСКАН         + 03274         0000164           РАФСКАН         + 03324         0000164           РАФСКАН         + 03324         0000164           РАФСКАН         + 03324         000011           РАФСКАН         + 03324         000011           РАФСКАН         + 03324         000011           РАФСКАН         + 03324         000011           РАФСКАН         + 03412         000001           РАФСКАН         + 03412         000001           РАФСКАН         + 03412         000001           РАФСКАН         + 03412         000001           СОННОИ         + 03412         000001           СОННОИ         + 03412         000001           СОННОИ         + 03412         000001           СОННОИ         + 03414         000001           СОННОИ         + 03426         000001           СОННОИ         + 03426         000001	РАССКАН         + 032414         0000133           РАССКАН         + 032445         0000133           РАССКАН         + 032740         0000131           РАССКАН         + 032745         0000164           РАССКАН         + 032745         0000164           РАССКАН         + 032745         0000164           РАССКАН         + 033076         0000110           РАССКАН         + 033076         0000110           РАССКАН         + 033077         0000075           РАССКАН         + 034132         0000017           РАССКАН         + 034132         0000017           РАССКАН         + 034132         0000017           РАССКАН         + 034132         0000017           СОННОИ         + 034157         0000017           СОННОИ         + 034157         0000011           СОННОИ         + 034157         0000017           СОННОИ         + 034157         0000011           СОННОИ         + 034157         0000017           СОННОИ         + 034157         0000017           СОННОИ         + 034157         0000011           СОННОИ         + 034159         0000011           СОННОИ         + 0342159 </td <td>  PAGGRAM + 032545</td> <td>  PAGGRAM + D32414</td>	PAGGRAM + 032545	PAGGRAM + D32414
РАЗДЕДН         1000131           РАЗДЕДН         1000131           РАЗДЕДН         1000131           РАЗДЕДН         1000131           РАЗДЕДН         1000131           РАЗДЕДН         1000131           РАЗДЕДН         1000142           РАЗДЕДН         1000114           РАЗДЕДН	PROGRAM	PAGGRAH         +035416         0000131           PAGGRAH         +035416         0000131           PAGGRAH         +035745         0000151           PAGGRAH         +035745         0000151           PAGGRAH         +033745         0000151           PAGGRAH         +0332745         0000151           PAGGRAH         +0332745         0000164           PAGGRAH         +033274         0000165           PROGRAH         +033274         0000167           PROGRAH         +033274         0000167           PROGRAH         +033274         0000017           PROGRAH         +033177         00000167           PROGRAH         +033177         0000017           PROGRAH         +033172         0000017           PROGRAH         +034132         0000017           COHHON         +034157         0000017           COHHON         +034159         0000017           COHHON         +034159         000001           COHHON         +034159         000001           COHHON         +034216         000001           COHHON         +034216         000001           COHHON         +034216         000001<	PAGGRAH         +035416         0000131           PAGGRAH         +035416         0000131           PAGGRAH         +035746         0000131           PAGGRAH         +035745         0000151           PAGGRAH         +035746         0000151           PAGGRAH         +033274         0000151           PAGGRAH         +033374         0000164           PAGGRAH         +033374         0000165           PROGRAH         +033172         0000165           PROGRAH         +033172         000016           PROGRAH         +034172         0000016           PROGRAH         +03412         000001           PROGRAH         +03412         000001           PROGRAH         +03415         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03421         000001           COHHON         +03421         000001     <	РАЗСБЕДН         + 032414         0000131           РАЗСБЕДН         + 032545         0000131           РАЗСБЕДН         + 032545         0000131           РАЗСБЕДН         + 032740         0000151           РАЗСБЕДН         + 032745         0000151           РАЗСБЕДН         + 0332745         0000164           РАЗСБЕДН         + 033334         0000165           РАЗСБЕДН         + 033334         0000165           РАЗСБЕДН         + 033334         0000165           РАЗСБЕДН         + 033334         0000165           РАЗСБЕДН         + 033334         0000016           РАЗСБЕДН         + 03417         0000016           РАЗСБЕДН         + 03413         000001           РАЗСБЕДН         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03425	PAGGRAH         +035416         0000131           PAGGRAH         +035416         0000131           PAGGRAH         +035745         0000151           PAGGRAH         +035745         0000164           PAGGRAH         +033745         0000164           PAGGRAH         +033745         0000167           PAGGRAH         +033274         0000167           PROGRAH         +033274         0000167           PROGRAH         +033274         0000167           PROGRAH         +033470         0000167           PROGRAH         +033470         0000167           PROGRAH         +03377         0000017           PROGRAH         +03372         0000017           PROGRAH         +03372         0000017           PROGRAH         +03372         0000017           PROGRAH         +034107         0000017           COHHON         +03412         0000011           COHHON         +03412         000001           COHHON         +03415         000001           COHHON         +03417         000001           COHHON         +03426         000001           COHHON         +03426         000001
PROGRAM	PROGRAM	PROGRAM + 0.35545   0000131   PROGRAM + 0.35745   0000131   PROGRAM + 0.35745   0000131   PROGRAM + 0.35745   0000131   PROGRAM + 0.35745   0000110   PROGRAM + 0.33745   0000110   PROGRAM + 0.33745   0000110   PROGRAM + 0.3375   0000015   PROGRAM + 0.3377   0000015   PROGRAM + 0.3475   0000015   PROGRAM + 0.3475   0000015   PROGRAM + 0.3415   0000015   PROGRAM + 0.3415   0000015   PROGRAM + 0.3415   0000015   PROGRAM + 0.3425   DROGRAM + 0.3425   DROGR	PROGRAM	PROGRAM	PROGRAM
PROGRAM + 032545	РКОСКАН         + 032545         000013           РКОСКАН         + 032545         000013           РКОСКАН         + 032545         000013           РКОСКАН         + 032545         000013           РКОСКАН         + 03274         000013           РКОСКАН         + 03274         000016           РКОСКАН         + 033274         000016           РКОСКАН         + 033274         000016           РКОСКАН         + 033274         000016           РКОСКАН         + 03322         000006           РКОСКАН         + 033334         000001           РКОСКАН         + 033334         000001           РКОСКАН         + 03342         000001           РКОСКАН         + 03342         000001           РКОСКАН         + 03412         000001           РКОСКАН         + 03413         000001           РКОСКАН         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03424         000001           СОННОИ         + 03424         000001	PROGRAM + 032545	PROGRAM + 032545   00001037   PROGRAM + 032545   00001131   PROGRAM + 032545   00001131   PROGRAM + 032545   00001131   PROGRAM + 0325745   00001131   PROGRAM + 033076   00001140   PROGRAM + 033076   00001140   PROGRAM + 033026   00001140   PROGRAM + 033026   00001140   PROGRAM + 033026   00000125   PROGRAM + 034026   DROGRAM + 034026   D	PROGRAM + 032545   0000131   PROGRAM + 0335745   0000131   PROGRAM + 0335745   0000131   PROGRAM + 0335745   00000142   PROGRAM + 033524   00000142   O0000142   O00000142   O00000142   O00000142   O0000142   O00000142   O00000142   O00000142	PROGRAM + 032545   00001037   PROGRAM + 032545   00001037   PROGRAM + 032545   00001037   PROGRAM + 032545   00001037   PROGRAM + 0335745   00001042   PROGRAM + 033076   00001042   PROGRAM + 033076   00001042   PROGRAM + 033076   00001073   PROGRAM + 033076   000001073   PROGRAM + 033076   000001073   PROGRAM + 033076   000001073   PROGRAM + 033076   000001073   PROGRAM + 033077   000001073   PROGRAM + 033076   000001073   PROGRAM + 033076   000001073   PROGRAM + 034070   0000001073   PROGRAM + 034070   0000001073   PROGRAM + 034070   0000001073   PR
PROGRAM + 032325   00001037	РКОСКАМ         + 033245         0000131           РКОСКАМ         + 032545         0000131           РКОСКАМ         + 032545         0000131           РКОСКАМ         + 032746         0000131           РКОСКАМ         + 032746         00001131           РКОСКАМ         + 033274         00001131           РКОСКАМ         + 033274         0000164           РКОСКАМ         + 033274         0000164           РКОСКАМ         + 033274         0000167           РКОСКАМ         + 033334         0000167           РКОСКАМ         + 033427         0000017           РКОСКАМ         + 033437         0000017           РКОСКАМ         + 034132         0000017           РКОСКАМ         + 034132         0000017           РКОСКАМ         + 034132         0000017           СОННОМ         + 034132         0000017           СОННОМ         + 034135         0000017           СОННОМ         + 034135         0000017           СОННОМ         + 034135         0000011           СОННОМ         + 034135         0000011           СОННОМ         + 034135         0000012           СОННОМ         + 03424	PROGRAM + 038385   D000066   PROGRAM + 038385   D0000133   PROGRAM + 038385   D0000133   PROGRAM + 038386   D0000133   PROGRAM + 038286   D0000142   PROGRAM + 038286   D0000142   PROGRAM + 038286   D0000142   PROGRAM + 038386   D0000142   PROGRAM + 038481   D0000142   PROGRAM + 038481   D000014   PROGRAM + 038415   D000014   PROGRAM + 038415   D000014   PROGRAM + 038415   D000014   PROGRAM + 038415   D000014   PROGRAM + 038426   D000014   PR	РКОСКАМ         +032545         00001057           РКОСКАМ         +032545         0000133           РКОСКАМ         +032545         0000131           РКОСКАМ         +032745         00001131           РКОСКАМ         +032745         00001131           РКОСКАМ         +033745         00001140           РКОСКАМ         +033274         00001121           РКОСКАМ         +033274         00001142           РКОСКАМ         +033274         00001142           РКОСКАМ         +033274         0000117           РКОСКАМ         +033274         0000117           РКОСКАМ         +033274         0000017           РКОСКАМ         +033274         0000017           РКОСКАМ         +033274         0000017           РКОСКАМ         +033274         0000017           РКОСКАМ         +034150         0000017           РКОСКАМ         +034154         0000017           РКОСКАМ         +034154         0000017           СОННОМ         +034154         0000017           СОННОМ         +034154         0000017           СОННОМ         +034154         0000011           СОННОМ         +034154	PROGRAM + 033255   00001057   PROGRAM + 033254   00001131   PROGRAM + 033254   00001131   PROGRAM + 033254   00001131   PROGRAM + 033274   00001131   PROGRAM + 033274   00001131   PROGRAM + 033274   00001131   PROGRAM + 033224   00001131   PROGRAM + 033224   00001131   PROGRAM + 033224   0000012   PROGRAM + 03425   0000012   PROGRAM + 034525   0000012   PROGRAM + 034525   0000012   PROGRAM + 035551   DROGRAM + 035551   DROGRAM + 035551   DROGRAM + 035555   DROG	PROGRAM + 032545
PROGRAM + 03325   0000067   PROGRAM + 03325   00000131   PROGRAM + 03324   00000131   PROGRAM + 03324   00000131   PROGRAM + 03324   00000131   PROGRAM + 03324   00000142   PROGRAM + 03324   00000142   PROGRAM + 03322   0000014   PROGRAM + 03342   0000014   PROGRAM + 033425   0000014   PROGRAM + 03412   0000014   PROGRAM + 03412   0000014   PROGRAM + 03412   0000014   PROGRAM + 03413   0000014   PROGRAM + 03426   000011   PROGRAM + 03426   0000011   PROGRAM + 03426   0000011   PROGRAM + 03426   0000011   PROGRAM + 03426   0000011   PRO	РКОСКАМ         + 035325         0000067           РКОСКАМ         + 035245         0000131           РКОСКАМ         + 035245         0000131           РКОСКАМ         + 035245         0000131           РКОСКАМ         + 035274         0000162           РКОСКАМ         + 035274         0000162           РКОСКАМ         + 035274         0000162           РКОСКАМ         + 03527         0000162           РКОСКАМ         + 03527         0000162           РКОСКАМ         + 03527         0000167           РКОСКАМ         + 03527         0000167           РКОСКАМ         + 03412         000011           РКОСКАМ         + 03412         000011           РКОСКАМ         + 03412         000011           РКОСКАМ         + 03413         000001           СОННОМ         + 03413         000001           СОННОМ         + 03413         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03424         000001 </td <td>  PROGRAM + 038385   0000067   PROGRAM + 038385   00000131   PROGRAM + 038385   00000131   PROGRAM + 038284   00000131   PROGRAM + 038284   00000131   PROGRAM + 038284   00000131   PROGRAM + 038284   00000142   PROGRAM + 03802   00000142   PROGRAM + 03802   00000142   PROGRAM + 03802   00000142   PROGRAM + 03802   0000012   PROGRAM + 03802   PROGRAM + 03802  </td> <td>РКОСКАМ         + 035245         00001057           РКОСКАМ         + 035245         0000131           РКОСКАМ         + 035245         0000131           РКОСКАМ         + 035245         00001131           РКОСКАМ         + 033274         00001131           РКОСКАМ         + 033274         00001131           РКОСКАМ         + 033274         0000112           РКОСКАМ         + 033274         0000112           РКОСКАМ         + 033224         0000110           РКОСКАМ         + 033224         0000017           РКОСКАМ         + 034152         0000017           РКОСКАМ         + 034152         0000017           СОННОМ         + 034154         0000017           СОННОМ         + 034154         0000017           СОННОМ         + 034154         0000017           СОННОМ         + 034154         0000011           СОННОМ         + 0</td> <td>  PROGRAM + 03325   0000067   PROGRAM + 03325   00000131   PROGRAM + 03324   00000131   PROGRAM + 03324   00000131   PROGRAM + 03324   00000131   PROGRAM + 033274   00000142   PROGRAM + 03326   00000142   PROGRAM + 03326   00000142   PROGRAM + 03326   00000142   PROGRAM + 03322   0000016   PROGRAM + 03322   0000017   PROGRAM + 03313   DROUD   PROGRAM + 03313   DROUD   PROGRAM + 03313   DROUD   PROGRAM + 03412   DROUD   PROGRAM + 03425   DROUD   PROGRAM + 03452   DROUD   PROGRAM + 03555   DROUD  </td> <td>  PROGRAM + 132325   0000067   PROGRAM + 132325   00000131   PROGRAM + 132325   00000131   PROGRAM + 132326   0000131   PROGRAM + 132374   0000131   PROGRAM + 133774   00000142   PROGRAM + 133774   0000065   PROGRAM + 133726   0000065   PROGRAM + 133726   0000014   PROGRAM + 133326   0000016   PROGRAM + 133326   0000017   PROGRAM + 13372   0000016   PROGRAM + 13372   PROGRAM + 13372  </td>	PROGRAM + 038385   0000067   PROGRAM + 038385   00000131   PROGRAM + 038385   00000131   PROGRAM + 038284   00000131   PROGRAM + 038284   00000131   PROGRAM + 038284   00000131   PROGRAM + 038284   00000142   PROGRAM + 03802   00000142   PROGRAM + 03802   00000142   PROGRAM + 03802   00000142   PROGRAM + 03802   0000012   PROGRAM + 03802	РКОСКАМ         + 035245         00001057           РКОСКАМ         + 035245         0000131           РКОСКАМ         + 035245         0000131           РКОСКАМ         + 035245         00001131           РКОСКАМ         + 033274         00001131           РКОСКАМ         + 033274         00001131           РКОСКАМ         + 033274         0000112           РКОСКАМ         + 033274         0000112           РКОСКАМ         + 033224         0000110           РКОСКАМ         + 033224         0000017           РКОСКАМ         + 034152         0000017           РКОСКАМ         + 034152         0000017           СОННОМ         + 034154         0000017           СОННОМ         + 034154         0000017           СОННОМ         + 034154         0000017           СОННОМ         + 034154         0000011           СОННОМ         + 0	PROGRAM + 03325   0000067   PROGRAM + 03325   00000131   PROGRAM + 03324   00000131   PROGRAM + 03324   00000131   PROGRAM + 03324   00000131   PROGRAM + 033274   00000142   PROGRAM + 03326   00000142   PROGRAM + 03326   00000142   PROGRAM + 03326   00000142   PROGRAM + 03322   0000016   PROGRAM + 03322   0000017   PROGRAM + 03313   DROUD   PROGRAM + 03313   DROUD   PROGRAM + 03313   DROUD   PROGRAM + 03412   DROUD   PROGRAM + 03425   DROUD   PROGRAM + 03452   DROUD   PROGRAM + 03555   DROUD	PROGRAM + 132325   0000067   PROGRAM + 132325   00000131   PROGRAM + 132325   00000131   PROGRAM + 132326   0000131   PROGRAM + 132374   0000131   PROGRAM + 133774   00000142   PROGRAM + 133774   0000065   PROGRAM + 133726   0000065   PROGRAM + 133726   0000014   PROGRAM + 133326   0000016   PROGRAM + 133326   0000017   PROGRAM + 13372   0000016   PROGRAM + 13372
PROGRAM         +033325         0000067           PROGRAM         +033246         0000131           PROGRAM         +033246         0000131           PROGRAM         +033746         0000131           PROGRAM         +033076         0000151           PROGRAM         +033076         0000151           PROGRAM         +033076         0000151           PROGRAM         +033076         0000162           PROGRAM         +033076         0000162           PROGRAM         +033076         0000167           PROGRAM         +033077         0000167           PROGRAM         +033077         0000167           PROGRAM         +033677         0000167           PROGRAM         +033677         0000017           PROGRAM         +034127         0000017           PROGRAM         +034137         0000017           COHHON         +034137         0000017           COHHON         +034136         000001           COHHON         +034136         000001           COHHON         +034136         000001           COHHON         +034136         000001           COHHON         +034136         000001 </td <td>PROGRAM         +03335         0000067           PROGRAM         +03341         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +033076         0000064           PROGRAM         +033076         0000110           PROGRAM         +033076         0000162           PROGRAM         +033076         0000065           PROGRAM         +033077         0000065           PROGRAM         +033077         0000065           PROGRAM         +03307         0000067           PROGRAM         +03307         0000067           PROGRAM         +03307         0000067           PROGRAM         +03307         0000067           PROGRAM         +03312         0000067           PROGRAM         +03412         0000067           PROGRAM         +03412         0000067           PROGRAM         +03413         0000067           COHHON         +03415         0000067           COHHON         +03415         0000067           COHHON         +03415         000001           COHHON         +03424         000001     <td>PROGRAM         +03335         0000067           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000064           PROGRAM         +03307         0000064           PROGRAM         +03307         0000064           PROGRAM         +033162         0000064           PROGRAM         +033162         0000065           PROGRAM         +033167         0000065           PROGRAM         +033167         0000065           PROGRAM         +033167         0000065           PROGRAM         +033167         0000017           PROGRAM         +03317         0000017           PROGRAM         +03317         0000017           PROGRAM         +03317         0000017           PROGRAM         +03317         0000017           COHHON         +03415         0000017           COHHON         +03415         0000017           COHHON         +03415         0000017           COHHON         +03415         0000017           COHON         +03426         0000017     <td>PROGRAM         +03335         0000067           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000164           PROGRAM         +033076         0000164           PROGRAM         +033162         0000164           PROGRAM         +033162         0000167           PROGRAM         +033612         0000167           PROGRAM         +03367         00000167           PROGRAM         +03412         00000167           PROGRAM         +03412         00000167           COHHON         +03415         00000167           COHHON         +03415         00000167           COHHON         +03415         00000167           COHHON         +03415         00000167<!--</td--><td>PROGRAM         +03332         0000067           PROGRAM         +03344         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +033076         000064           PROGRAM         +033076         000064           PROGRAM         +033076         0000131           PROGRAM         +033076         0000167           PROGRAM         +033076         0000167           PROGRAM         +033077         000017           PROGRAM         +03367         0000167           PROGRAM         +03367         0000017           PROGRAM         +03413         0000017           PROGRAM         +03413         0000017           COHHON         +03413         0000017           COHHON         +03413         0000017           COHHON         +03412         0000011           COHHON         +034204         0000011     <td>PROGRAM         +03335         0000067           PROGRAM         +03354         0000131           PROGRAM         +03554         0000131           PROGRAM         +035745         0000135           PROGRAM         +035746         0000151           PROGRAM         +033076         0000151           PROGRAM         +033176         0000162           PROGRAM         +033176         0000167           PROGRAM         +033174         0000155           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +034121         0000017           PROGRAM         +034121         0000017           PROGRAM         +034132         0000017           COHHON         +034155         0000017           COHHON         +034155         0000017           COHHON         +034155         0000017           COHHON         +03425         0000017           COHHON         +03426         0000017           COHHON         +034215         0000016</td></td></td></td></td>	PROGRAM         +03335         0000067           PROGRAM         +03341         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +033076         0000064           PROGRAM         +033076         0000110           PROGRAM         +033076         0000162           PROGRAM         +033076         0000065           PROGRAM         +033077         0000065           PROGRAM         +033077         0000065           PROGRAM         +03307         0000067           PROGRAM         +03307         0000067           PROGRAM         +03307         0000067           PROGRAM         +03307         0000067           PROGRAM         +03312         0000067           PROGRAM         +03412         0000067           PROGRAM         +03412         0000067           PROGRAM         +03413         0000067           COHHON         +03415         0000067           COHHON         +03415         0000067           COHHON         +03415         000001           COHHON         +03424         000001 <td>PROGRAM         +03335         0000067           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000064           PROGRAM         +03307         0000064           PROGRAM         +03307         0000064           PROGRAM         +033162         0000064           PROGRAM         +033162         0000065           PROGRAM         +033167         0000065           PROGRAM         +033167         0000065           PROGRAM         +033167         0000065           PROGRAM         +033167         0000017           PROGRAM         +03317         0000017           PROGRAM         +03317         0000017           PROGRAM         +03317         0000017           PROGRAM         +03317         0000017           COHHON         +03415         0000017           COHHON         +03415         0000017           COHHON         +03415         0000017           COHHON         +03415         0000017           COHON         +03426         0000017     <td>PROGRAM         +03335         0000067           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000164           PROGRAM         +033076         0000164           PROGRAM         +033162         0000164           PROGRAM         +033162         0000167           PROGRAM         +033612         0000167           PROGRAM         +03367         00000167           PROGRAM         +03412         00000167           PROGRAM         +03412         00000167           COHHON         +03415         00000167           COHHON         +03415         00000167           COHHON         +03415         00000167           COHHON         +03415         00000167<!--</td--><td>PROGRAM         +03332         0000067           PROGRAM         +03344         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +033076         000064           PROGRAM         +033076         000064           PROGRAM         +033076         0000131           PROGRAM         +033076         0000167           PROGRAM         +033076         0000167           PROGRAM         +033077         000017           PROGRAM         +03367         0000167           PROGRAM         +03367         0000017           PROGRAM         +03413         0000017           PROGRAM         +03413         0000017           COHHON         +03413         0000017           COHHON         +03413         0000017           COHHON         +03412         0000011           COHHON         +034204         0000011     <td>PROGRAM         +03335         0000067           PROGRAM         +03354         0000131           PROGRAM         +03554         0000131           PROGRAM         +035745         0000135           PROGRAM         +035746         0000151           PROGRAM         +033076         0000151           PROGRAM         +033176         0000162           PROGRAM         +033176         0000167           PROGRAM         +033174         0000155           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +034121         0000017           PROGRAM         +034121         0000017           PROGRAM         +034132         0000017           COHHON         +034155         0000017           COHHON         +034155         0000017           COHHON         +034155         0000017           COHHON         +03425         0000017           COHHON         +03426         0000017           COHHON         +034215         0000016</td></td></td></td>	PROGRAM         +03335         0000067           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000064           PROGRAM         +03307         0000064           PROGRAM         +03307         0000064           PROGRAM         +033162         0000064           PROGRAM         +033162         0000065           PROGRAM         +033167         0000065           PROGRAM         +033167         0000065           PROGRAM         +033167         0000065           PROGRAM         +033167         0000017           PROGRAM         +03317         0000017           PROGRAM         +03317         0000017           PROGRAM         +03317         0000017           PROGRAM         +03317         0000017           COHHON         +03415         0000017           COHHON         +03415         0000017           COHHON         +03415         0000017           COHHON         +03415         0000017           COHON         +03426         0000017 <td>PROGRAM         +03335         0000067           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000164           PROGRAM         +033076         0000164           PROGRAM         +033162         0000164           PROGRAM         +033162         0000167           PROGRAM         +033612         0000167           PROGRAM         +03367         00000167           PROGRAM         +03412         00000167           PROGRAM         +03412         00000167           COHHON         +03415         00000167           COHHON         +03415         00000167           COHHON         +03415         00000167           COHHON         +03415         00000167<!--</td--><td>PROGRAM         +03332         0000067           PROGRAM         +03344         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +033076         000064           PROGRAM         +033076         000064           PROGRAM         +033076         0000131           PROGRAM         +033076         0000167           PROGRAM         +033076         0000167           PROGRAM         +033077         000017           PROGRAM         +03367         0000167           PROGRAM         +03367         0000017           PROGRAM         +03413         0000017           PROGRAM         +03413         0000017           COHHON         +03413         0000017           COHHON         +03413         0000017           COHHON         +03412         0000011           COHHON         +034204         0000011     <td>PROGRAM         +03335         0000067           PROGRAM         +03354         0000131           PROGRAM         +03554         0000131           PROGRAM         +035745         0000135           PROGRAM         +035746         0000151           PROGRAM         +033076         0000151           PROGRAM         +033176         0000162           PROGRAM         +033176         0000167           PROGRAM         +033174         0000155           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +034121         0000017           PROGRAM         +034121         0000017           PROGRAM         +034132         0000017           COHHON         +034155         0000017           COHHON         +034155         0000017           COHHON         +034155         0000017           COHHON         +03425         0000017           COHHON         +03426         0000017           COHHON         +034215         0000016</td></td></td>	PROGRAM         +03335         0000067           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000164           PROGRAM         +033076         0000164           PROGRAM         +033162         0000164           PROGRAM         +033162         0000167           PROGRAM         +033612         0000167           PROGRAM         +03367         00000167           PROGRAM         +03412         00000167           PROGRAM         +03412         00000167           COHHON         +03415         00000167           COHHON         +03415         00000167           COHHON         +03415         00000167           COHHON         +03415         00000167 </td <td>PROGRAM         +03332         0000067           PROGRAM         +03344         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +033076         000064           PROGRAM         +033076         000064           PROGRAM         +033076         0000131           PROGRAM         +033076         0000167           PROGRAM         +033076         0000167           PROGRAM         +033077         000017           PROGRAM         +03367         0000167           PROGRAM         +03367         0000017           PROGRAM         +03413         0000017           PROGRAM         +03413         0000017           COHHON         +03413         0000017           COHHON         +03413         0000017           COHHON         +03412         0000011           COHHON         +034204         0000011     <td>PROGRAM         +03335         0000067           PROGRAM         +03354         0000131           PROGRAM         +03554         0000131           PROGRAM         +035745         0000135           PROGRAM         +035746         0000151           PROGRAM         +033076         0000151           PROGRAM         +033176         0000162           PROGRAM         +033176         0000167           PROGRAM         +033174         0000155           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +034121         0000017           PROGRAM         +034121         0000017           PROGRAM         +034132         0000017           COHHON         +034155         0000017           COHHON         +034155         0000017           COHHON         +034155         0000017           COHHON         +03425         0000017           COHHON         +03426         0000017           COHHON         +034215         0000016</td></td>	PROGRAM         +03332         0000067           PROGRAM         +03344         0000131           PROGRAM         +03374         0000131           PROGRAM         +03374         0000131           PROGRAM         +033076         000064           PROGRAM         +033076         000064           PROGRAM         +033076         0000131           PROGRAM         +033076         0000167           PROGRAM         +033076         0000167           PROGRAM         +033077         000017           PROGRAM         +03367         0000167           PROGRAM         +03367         0000017           PROGRAM         +03413         0000017           PROGRAM         +03413         0000017           COHHON         +03413         0000017           COHHON         +03413         0000017           COHHON         +03412         0000011           COHHON         +034204         0000011 <td>PROGRAM         +03335         0000067           PROGRAM         +03354         0000131           PROGRAM         +03554         0000131           PROGRAM         +035745         0000135           PROGRAM         +035746         0000151           PROGRAM         +033076         0000151           PROGRAM         +033176         0000162           PROGRAM         +033176         0000167           PROGRAM         +033174         0000155           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +034121         0000017           PROGRAM         +034121         0000017           PROGRAM         +034132         0000017           COHHON         +034155         0000017           COHHON         +034155         0000017           COHHON         +034155         0000017           COHHON         +03425         0000017           COHHON         +03426         0000017           COHHON         +034215         0000016</td>	PROGRAM         +03335         0000067           PROGRAM         +03354         0000131           PROGRAM         +03554         0000131           PROGRAM         +035745         0000135           PROGRAM         +035746         0000151           PROGRAM         +033076         0000151           PROGRAM         +033176         0000162           PROGRAM         +033176         0000167           PROGRAM         +033174         0000155           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +033177         0000017           PROGRAM         +034121         0000017           PROGRAM         +034121         0000017           PROGRAM         +034132         0000017           COHHON         +034155         0000017           COHHON         +034155         0000017           COHHON         +034155         0000017           COHHON         +03425         0000017           COHHON         +03426         0000017           COHHON         +034215         0000016
PROGRAM         + 033.25         0000067           PROGRAM         + 03.2545         0000131           PROGRAM         + 03.2546         0000131           PROGRAM         + 03.2546         0000131           PROGRAM         + 03.2746         0000151           PROGRAM         + 03.3076         0000015           PROGRAM         + 03.3167         0000110           PROGRAM         + 03.3124         000015           PROGRAM         + 03.3124         000011           PROGRAM         + 03.3124         000015           PROGRAM         + 03.3124         000011           PROGRAM         + 03.3127         0000015           PROGRAM         + 03.312         0000015           PROGRAM         + 03.312         0000017           PROGRAM         + 03.412         000001           PROGRAM         + 03.412         000001           PROGRAM         + 03.412         000001           COHHON         + 03.412         000001           COHHON         + 03.415         000001           COHHON         + 03.415         000001           COHHON         + 03.415         000001           COHHON         + 03.415	PROGRAM         + 03335         0000067           PROGRAM         + 033545         0000131           PROGRAM         + 033546         0000131           PROGRAM         + 033746         000015           PROGRAM         + 033746         000015           PROGRAM         + 033076         000016           PROGRAM         + 033076         000016           PROGRAM         + 033076         000016           PROGRAM         + 033124         000016           PROGRAM         + 033124         000016           PROGRAM         + 033124         000017           PROGRAM         + 033127         0000017           PROGRAM         + 033127         0000017           PROGRAM         + 033127         0000017           PROGRAM         + 034121         0000017           PROGRAM         + 034121         0000017           COHHON         + 034125         0000017           COHHON         + 034126         000001           COHHON         + 034126         000001           COHHON         + 034126         000001           COHHON         + 034126         000001           COHHON         + 03421         <	PROGRAM         + 033325         0000067           PROGRAM         + 033414         0000131           PROGRAM         + 033446         0000131           PROGRAM         + 033740         0000131           PROGRAM         + 033740         0000151           PROGRAM         + 033740         0000151           PROGRAM         + 033244         0000110           PROGRAM         + 03324         0000151           PROGRAM         + 03324         0000151           PROGRAM         + 03324         0000110           PROGRAM         + 03324         0000155           PROGRAM         + 033172         0000016           PROGRAM         + 034132         0000016           PROGRAM         + 034132         0000016           PROGRAM         + 034132         000001           COHHON         + 034132         000001           COHHON         + 034154         000001           COHHON         + 034154         000001           COHON         + 034154         000001           COHON         + 034154         000001           COHON         + 034256         000001           COHON         + 034256 <td< td=""><td>PROGRAM         +03325         0000067           PROGRAM         +03354         0000131           PROGRAM         +03546         0000131           PROGRAM         +035745         0000131           PROGRAM         +035745         0000131           PROGRAM         +035745         000015           PROGRAM         +033076         000016           PROGRAM         +033076         000016           PROGRAM         +033076         000016           PROGRAM         +03307         000016           PROGRAM         +03367         000016           PROGRAM         +03367         000001           PROGRAM         +03412         000016           PROGRAM         +03413         000016           PROGRAM         +03413         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03422         000001</td><td>PROGRAM         + 03335         0000067           PROGRAM         + 033545         0000131           PROGRAM         + 033546         0000135           PROGRAM         + 033746         0000151           PROGRAM         + 033076         0000162           PROGRAM         + 033076         0000162           PROGRAM         + 033076         0000162           PROGRAM         + 033076         0000162           PROGRAM         + 033076         0000167           PROGRAM         + 033076         0000167           PROGRAM         + 033076         0000167           PROGRAM         + 033077         0000167           PROGRAM         + 033077         0000167           PROGRAM         + 03412         000017           PROGRAM         + 03412         000017           PROGRAM         + 03413         000017           PROGRAM         + 03413         000017           COHHON         + 03413         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415</td><td>PROGRAM         + 033325         0000067           PROGRAM         + 033414         0000131           PROGRAM         + 033414         0000131           PROGRAM         + 033745         0000131           PROGRAM         + 033746         0000131           PROGRAM         + 033746         0000131           PROGRAM         + 033244         0000110           PROGRAM         + 03324         000015           PROGRAM         + 03316         000015           PROGRAM         + 03317         000016           PROGRAM         + 03317         000016           PROGRAM         + 03317         000016           PROGRAM         + 03413         000011           PROGRAM         + 03413         000001           PROGRAM         + 03415         000001           PROGRAM         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03425         000001           COHHON         + 03425         000001           COHHON         + 03426         000001</td></td<>	PROGRAM         +03325         0000067           PROGRAM         +03354         0000131           PROGRAM         +03546         0000131           PROGRAM         +035745         0000131           PROGRAM         +035745         0000131           PROGRAM         +035745         000015           PROGRAM         +033076         000016           PROGRAM         +033076         000016           PROGRAM         +033076         000016           PROGRAM         +03307         000016           PROGRAM         +03367         000016           PROGRAM         +03367         000001           PROGRAM         +03412         000016           PROGRAM         +03413         000016           PROGRAM         +03413         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03422         000001	PROGRAM         + 03335         0000067           PROGRAM         + 033545         0000131           PROGRAM         + 033546         0000135           PROGRAM         + 033746         0000151           PROGRAM         + 033076         0000162           PROGRAM         + 033076         0000162           PROGRAM         + 033076         0000162           PROGRAM         + 033076         0000162           PROGRAM         + 033076         0000167           PROGRAM         + 033076         0000167           PROGRAM         + 033076         0000167           PROGRAM         + 033077         0000167           PROGRAM         + 033077         0000167           PROGRAM         + 03412         000017           PROGRAM         + 03412         000017           PROGRAM         + 03413         000017           PROGRAM         + 03413         000017           COHHON         + 03413         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415	PROGRAM         + 033325         0000067           PROGRAM         + 033414         0000131           PROGRAM         + 033414         0000131           PROGRAM         + 033745         0000131           PROGRAM         + 033746         0000131           PROGRAM         + 033746         0000131           PROGRAM         + 033244         0000110           PROGRAM         + 03324         000015           PROGRAM         + 03316         000015           PROGRAM         + 03317         000016           PROGRAM         + 03317         000016           PROGRAM         + 03317         000016           PROGRAM         + 03413         000011           PROGRAM         + 03413         000001           PROGRAM         + 03415         000001           PROGRAM         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03425         000001           COHHON         + 03425         000001           COHHON         + 03426         000001
PROGRAM         + 03232         0000067           PROGRAM         + 032414         0000131           PROGRAM         + 032746         0000131           PROGRAM         + 032740         0000131           PROGRAM         + 033746         0000131           PROGRAM         + 033746         0000131           PROGRAM         + 03324         0000151           PROGRAM         + 03324         0000151           PROGRAM         + 03324         0000151           PROGRAM         + 03324         0000152           PROGRAM         + 03327         0000167           PROGRAM         + 03317         000015           PROGRAM         + 03317         000015           PROGRAM         + 03417         000015           PROGRAM         + 03417         000016           PROGRAM         + 03417         000001           COHHON         + 03418         000001           COHHON         + 03428         000001 <td>РКОСКАН         + 03532         0000067           РКОСКАН         + 035414         0000131           РКОСКАН         + 035740         0000131           РКОСКАН         + 035740         0000131           РКОСКАН         + 035740         0000131           РКОСКАН         + 035740         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 033772         000011           РКОСКАН         + 03412         000011           РКОСКАН         + 03412         000011           РКОСКАН         + 03412         000011           РКОСКАН         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03421         000001           СОННОИ         + 03421         000001           СОННОИ         + 03421         000001<td>РКОСКАН         + 03532         0000067           РКОСКАН         + 03545         0000131           РКОСКАН         + 03574         0000131           РКОСКАН         + 03574         0000131           РКОСКАН         + 03574         0000110           РКОСКАН         + 03374         0000110           РКОСКАН         + 03316         0000110           РКОСКАН         + 03317         0000110           РКОСКАН         + 03317         000007           РКОСКАН         + 03317         0000014           РКОСКАН         + 03317         0000016           РКОСКАН         + 03317         0000016           РКОСКАН         + 03413         0000016           РКОСКАН         + 03413         0000016           РКОСКАН         + 03413         0000017           РКОСКАН         + 03413         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03416         000001           СОННОМ         + 03421         000001</td><td>РКОСКАН         + 03232         0000067           РКОСКАН         + 032414         0000131           РКОСКАН         + 032749         0000113           РКОСКАН         + 032749         0000113           РКОСКАН         + 032749         0000113           РКОСКАН         + 03374         0000113           РКОСКАН         + 03374         0000110           РКОСКАН         + 03316         0000110           РКОСКАН         + 03317         000005           РКОСКАН         + 03317         000007           РКОСКАН         + 03377         000007           РКОСКАН         + 03407         0000016           РКОСКАН         + 03412         0000016           РКОСКАН         + 03412         0000016           РКОСКАН         + 03412         0000017           РКОСКАН         + 03412         0000017           РКОСКАН         + 03412         0000011           СОННОМ         + 03416         000001           СОННОМ         + 03416         000001           СОННОМ         + 03426         000001           СОННОМ         + 03424         000001           СОННОМ         + 03424         000001</td><td>PROGRAM         + 03232         0000067           PROGRAM         + 03244         0000131           PROGRAM         + 03274         0000131           PROGRAM         + 03274         0000131           PROGRAM         + 03374         0000151           PROGRAM         + 03374         0000151           PROGRAM         + 03374         0000151           PROGRAM         + 03316         0000151           PROGRAM         + 03317         0000151           PROGRAM         + 03317         0000152           PROGRAM         + 03312         000015           PROGRAM         + 03312         000015           PROGRAM         + 03312         000015           PROGRAM         + 03312         000017           PROGRAM         + 03412         000017           PROGRAM         + 03412         000017           COHHON         + 03412         000010           COHHON         + 03415         000010</td><td>РКОСКАН         + 03532         0000067           РКОСКАН         + 03545         0000131           РКОСКАН         + 03574         0000131           РКОСКАН         + 03574         0000131           РКОСКАН         + 03574         0000110           РКОСКАН         + 03574         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 03316         0000110           РКОСКАН         + 03317         0000055           РКОСКАН         + 03317         0000014           РКОСКАН         + 03317         0000016           РКОСКАН         + 03317         0000016           РКОСКАН         + 03413         0000017           РКОСКАН         + 03413         0000017           СОННОМ         + 03413         0000017           СОННОМ         + 03415         0000017           СОННОМ         + 03426         000001</td></td>	РКОСКАН         + 03532         0000067           РКОСКАН         + 035414         0000131           РКОСКАН         + 035740         0000131           РКОСКАН         + 035740         0000131           РКОСКАН         + 035740         0000131           РКОСКАН         + 035740         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 033772         000011           РКОСКАН         + 03412         000011           РКОСКАН         + 03412         000011           РКОСКАН         + 03412         000011           РКОСКАН         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03421         000001           СОННОИ         + 03421         000001           СОННОИ         + 03421         000001 <td>РКОСКАН         + 03532         0000067           РКОСКАН         + 03545         0000131           РКОСКАН         + 03574         0000131           РКОСКАН         + 03574         0000131           РКОСКАН         + 03574         0000110           РКОСКАН         + 03374         0000110           РКОСКАН         + 03316         0000110           РКОСКАН         + 03317         0000110           РКОСКАН         + 03317         000007           РКОСКАН         + 03317         0000014           РКОСКАН         + 03317         0000016           РКОСКАН         + 03317         0000016           РКОСКАН         + 03413         0000016           РКОСКАН         + 03413         0000016           РКОСКАН         + 03413         0000017           РКОСКАН         + 03413         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03416         000001           СОННОМ         + 03421         000001</td> <td>РКОСКАН         + 03232         0000067           РКОСКАН         + 032414         0000131           РКОСКАН         + 032749         0000113           РКОСКАН         + 032749         0000113           РКОСКАН         + 032749         0000113           РКОСКАН         + 03374         0000113           РКОСКАН         + 03374         0000110           РКОСКАН         + 03316         0000110           РКОСКАН         + 03317         000005           РКОСКАН         + 03317         000007           РКОСКАН         + 03377         000007           РКОСКАН         + 03407         0000016           РКОСКАН         + 03412         0000016           РКОСКАН         + 03412         0000016           РКОСКАН         + 03412         0000017           РКОСКАН         + 03412         0000017           РКОСКАН         + 03412         0000011           СОННОМ         + 03416         000001           СОННОМ         + 03416         000001           СОННОМ         + 03426         000001           СОННОМ         + 03424         000001           СОННОМ         + 03424         000001</td> <td>PROGRAM         + 03232         0000067           PROGRAM         + 03244         0000131           PROGRAM         + 03274         0000131           PROGRAM         + 03274         0000131           PROGRAM         + 03374         0000151           PROGRAM         + 03374         0000151           PROGRAM         + 03374         0000151           PROGRAM         + 03316         0000151           PROGRAM         + 03317         0000151           PROGRAM         + 03317         0000152           PROGRAM         + 03312         000015           PROGRAM         + 03312         000015           PROGRAM         + 03312         000015           PROGRAM         + 03312         000017           PROGRAM         + 03412         000017           PROGRAM         + 03412         000017           COHHON         + 03412         000010           COHHON         + 03415         000010</td> <td>РКОСКАН         + 03532         0000067           РКОСКАН         + 03545         0000131           РКОСКАН         + 03574         0000131           РКОСКАН         + 03574         0000131           РКОСКАН         + 03574         0000110           РКОСКАН         + 03574         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 03316         0000110           РКОСКАН         + 03317         0000055           РКОСКАН         + 03317         0000014           РКОСКАН         + 03317         0000016           РКОСКАН         + 03317         0000016           РКОСКАН         + 03413         0000017           РКОСКАН         + 03413         0000017           СОННОМ         + 03413         0000017           СОННОМ         + 03415         0000017           СОННОМ         + 03426         000001</td>	РКОСКАН         + 03532         0000067           РКОСКАН         + 03545         0000131           РКОСКАН         + 03574         0000131           РКОСКАН         + 03574         0000131           РКОСКАН         + 03574         0000110           РКОСКАН         + 03374         0000110           РКОСКАН         + 03316         0000110           РКОСКАН         + 03317         0000110           РКОСКАН         + 03317         000007           РКОСКАН         + 03317         0000014           РКОСКАН         + 03317         0000016           РКОСКАН         + 03317         0000016           РКОСКАН         + 03413         0000016           РКОСКАН         + 03413         0000016           РКОСКАН         + 03413         0000017           РКОСКАН         + 03413         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03416         000001           СОННОМ         + 03421         000001	РКОСКАН         + 03232         0000067           РКОСКАН         + 032414         0000131           РКОСКАН         + 032749         0000113           РКОСКАН         + 032749         0000113           РКОСКАН         + 032749         0000113           РКОСКАН         + 03374         0000113           РКОСКАН         + 03374         0000110           РКОСКАН         + 03316         0000110           РКОСКАН         + 03317         000005           РКОСКАН         + 03317         000007           РКОСКАН         + 03377         000007           РКОСКАН         + 03407         0000016           РКОСКАН         + 03412         0000016           РКОСКАН         + 03412         0000016           РКОСКАН         + 03412         0000017           РКОСКАН         + 03412         0000017           РКОСКАН         + 03412         0000011           СОННОМ         + 03416         000001           СОННОМ         + 03416         000001           СОННОМ         + 03426         000001           СОННОМ         + 03424         000001           СОННОМ         + 03424    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       + 03574         0000131           РКОСКАН         + 03574         0000131           РКОСКАН         + 03574         0000110           РКОСКАН         + 03574         0000110           РКОСКАН         + 03324         0000110           РКОСКАН         + 03316         0000110           РКОСКАН         + 03317         0000055           РКОСКАН         + 03317         0000014           РКОСКАН         + 03317         0000016           РКОСКАН         + 03317         0000016           РКОСКАН         + 03413         0000017           РКОСКАН         + 03413         0000017           СОННОМ         + 03413         0000017           СОННОМ         + 03415         0000017           СОННОМ         + 03426         000001
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+033172         0000110           РЕОСКАН         +033772         0000015           РЕОСКАН         +033772         0000016           РЕОСКАН         +034132         0000016           РЕОСКАН         +034132         0000017           СОННОИ         +03415         0000017           СОННОИ         +03415         0000017           СОННОИ         +03426         0000017           СОННОИ         +034215         0000017	PROGRAM         +03245         0000057           PROGRAM         +03245         0000131           PROGRAM         +032745         0000131           PROGRAM         +032745         0000131           PROGRAM         +032745         0000113           PROGRAM         +032745         0000113           PROGRAM         +033745         0000113           PROGRAM         +033274         0000110           PROGRAM         +033274         0000110           PROGRAM         +033274         0000015           PROGRAM         +033274         0000015           PROGRAM         +033274         0000015           PROGRAM         +033272         0000075           PROGRAM         +033272         0000075           PROGRAM         +034132         0000075           PROGRAM         +034132         0000075           PROGRAM         +034132         0000077           PROGRAM         +034132         000007           COHHON         +034137         000007           COHHON         +034125         000001           COHHON         +034125         000001           COHHON         +034214         000001 <td>  PROGRAM + 032456   0000131   PROGRAM + 032456   0000131   PROGRAM + 032456   0000131   PROGRAM + 032456   0000131   PROGRAM + 032746   0000131   PROGRAM + 033746   0000131   PROGRAM + 033746   0000131   PROGRAM + 033616   0000110   PROGRAM + 033616   0000110   PROGRAM + 033616   0000110   PROGRAM + 033616   0000015   PROGRAM + 033616   0000016   PROGRAM + 03412   0000016   PROGRAM + 03412   0000016   PROGRAM + 03412   0000016   PROGRAM + 03412   0000017   COMMON + 03426   00000017   COMMON +</td> <td>PROGRAM         +03325         0000057           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032740         0000131           PROGRAM         +032740         0000131           PROGRAM         +032740         0000131           PROGRAM         +03374         0000110           PROGRAM         +03374         0000110           PROGRAM         +03374         0000110           PROGRAM         +03316         0000110           PROGRAM         +03317         0000110           PROGRAM         +03317         0000110           PROGRAM         +03317         0000110           PROGRAM         +03317         000011           PROGRAM         +03417         000011           PROGRAM         +03412         000011           PROGRAM         +03412         000001           PROGRAM         +03412         000001           COHHON         +03415         000001           COHHON         +03415         000001           COHHON        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РАССКАМ + 033215 0000053 РАССКАМ + 033216 0000131 РАССКАМ + 033745 0000131 РАССКАМ + 033745 0000131 РАССКАМ + 033224 0000110 РАССКАМ + 03312 0000015 РАССКАМ + 034132 0000015 РАССКАМ + 034132 0000017 СОННОИ + 03425 0000017 СОННОИ + 03426 000011 СОННОИ + 03425 0000116 СОННОИ + 03425 0000111 СОННОИ + 03425 0000111 СОННОИ + 03425 0000111 СОННОИ + 03521 0000113 СОННОИ + 03531 0000113	PROGRAM	РАЗСКАМ + 032415 00006131 PROGRAM + 032416 0000131 PROGRAM + 032745 0000131 PROGRAM + 032745 0000131 PROGRAM + 032745 0000131 PROGRAM + 032745 0000112 PROGRAM + 033745 0000112 PROGRAM + 033745 0000112 PROGRAM + 033162 0000112 PROGRAM + 033162 0000011 PROGRAM + 033162 0000011 PROGRAM + 033167 0000011 PROGRAM + 033167 0000011 PROGRAM + 033107 0000011 PROGRAM + 03310 0000011 PROGRAM + 03310 0000011 PROGRAM + 034121 0000011 PROGRAM + 034121 0000011 PROGRAM + 034121 0000011 PROGRAM + 034121 0000011 PROGRAM + 03412 000001 PROGRAM + 03412 00001 PROGRAM + 03412 00001 PROGRAM + 03412 00001 PROGRAM + 03450 00001 PROGRAM + 03550 00001 PROGRAM + 0	РАЗСКАМ + 103.25 0000053 PROGRAM + 103.26 0000131 PROGRAM + 103.26 0000131 PROGRAM + 103.27 0000131 PROGRAM + 103.27 0000151 PROGRAM + 103.27 0000151 PROGRAM + 103.27 0000151 PROGRAM + 103.27 0000152 PROGRAM + 103.22 0000015 PROGRAM + 103.41 0000011 PROGRAM + 103.41 000001 PROGRAM + 103.41 0000	PROGRAM	РАЗСКАМ + 103.25 000005.3 РАЗСКАМ + 103.25 000005.3 РАЗСКАМ + 103.27 0 00001.3 РАЗСКАМ + 103.27 0 00001.3 РАЗСКАМ + 103.27 0 00001.4 РАЗСКАМ + 103.27 0 00001.4 РАЗСКАМ + 103.27 0 0000.5 РАЗСКАМ + 103.16 00001.4 РАЗСКАМ + 103.16 00001.4 РАЗСКАМ + 103.16 00001.4 РАЗСКАМ + 103.12 00000.7 РАЗСКАМ + 103.12 00000.7 СОННОМ + 103.13 СОННОМ + 103.55 СОННОМ + 103.55
РАЗСВЕДИ + 033212 0000053 PROGRAM + 033214 0000131 PROGRAM + 033245 0000131 PROGRAM + 033245 0000131 PROGRAM + 033245 0000131 PROGRAM + 033245 0000151 PROGRAM + 033245 0000151 PROGRAM + 03324 0000152 PROGRAM + 03324 0000152 PROGRAM + 03324 0000152 PROGRAM + 03324 000015 PROGRAM + 03324 000015 PROGRAM + 033424 0000015 PROGRAM + 03442 0000015 PROGRAM + 03445 0000015 PROGRAM + 03445 0000015 PROGRAM + 03425 0000015 PROGRAM + 03425 0000015 PROGRAM + 03425 0000015 PROGRAM + 03424 0000015 PROGRAM + 03425 0000015 PROGRAM + 03421 PROGRAM + 03425 0000011 PROGRAM + 03421 PROGRA	РХОСКАН + 033267 00000233 РХОСКАН + 033245 0000131 РХОСКАН + 033745 0000131 РХОСКАН + 033745 0000151 РХОСКАН + 033745 0000151 РХОСКАН + 033745 0000151 РХОСКАН + 033076 0000151 РХОСКАН + 033076 0000152 РХОСКАН + 033076 0000152 РХОСКАН + 033076 0000152 РХОСКАН + 033151 0000015 РХОСКАН + 033151 0000015 РХОСКАН + 033151 0000015 РХОСКАН + 033151 0000015 РХОСКАН + 034152 0000015 РХОСКАН + 034151 0000015 РХОСКАН + 034154 0000015 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   +034132         0000011           СОННОИ         +034154         0000011           СОННОИ         +034154         0000011           СОННОИ         +034154         0000011           СОННОИ         +034156         0000011           СОННОИ         +034175         0000001           СОННОИ         +0342175	РАЗСБЕДИ         + 033272         0000053           РАЗСБЕДИ         + 033545         0000131           РАЗСБЕДИ         + 033545         0000131           РАЗСБЕДИ         + 033545         0000131           РАЗСБЕДИ         + 033545         0000131           РАЗСБЕДИ         + 033745         0000151           РАЗСБЕДИ         + 033745         0000151           РАЗСБЕДИ         + 033274         000011           РАЗСБЕДИ         + 033272         000011           РАЗСБЕДИ         + 033772         000001           СОННОИ         + 034132         000001           СОННОИ         + 034132         000001           СОННОИ         + 034154         000001           СОННОИ         + 034157         000001           СОННОИ         + 034159         000001           СОННОИ         + 034216         000001           СОННОИ         + 034216	РАЗСВЕДИН         +033415         0000053           РАЗСВЕДИН         +033415         0000131           РАЗСВЕДИН         +033545         0000131           РАЗСВЕДИН         +033545         0000131           РАЗСВЕДИН         +033545         0000131           РАЗСВЕДИН         +033545         0000151           РАЗСВЕДИН         +033245         0000151           РАЗСВЕДИН         +033374         0000110           РАЗСВЕДИН         +033374         0000110           РАЗСВЕДИН         +033374         0000110           РАЗСВЕДИН         +033374         0000110           РАЗСВЕДИН         +033374         000011           РАЗСВЕДИН         +034107         000011           РАЗСВЕДИН         +034127         0000014           РАЗСВЕДИН         +034132         0000011           СОННОИ         +034132         0000011           СОННОИ         +034132         0000011           СОННОИ         +034134         0000011           СОННОИ         +034134         0000011           СОННОИ         +034154         0000011           СОННОИ         +034154         0000011           СОННОИ         +0	РАЗСВЕДИН         +033287         00000633           РАЗСВЕДИ         +0332845         00000131           РАЗСВЕДИ         +033545         00000131           РАЗСВЕДИ         +033545         00000131           РАЗСВЕДИ         +033274         00000131           РАЗСВЕДИ         +033274         00000151           РАЗСВЕДИ         +033274         00000167           РАЗСВЕДИ         +033274         00000167           РАЗСВЕДИ         +033274         00000167           РАЗСВЕДИ         +033274         0000017           РАЗСВЕДИ         +033274         0000017           РАЗСВЕДИ         +034132         0000017           РАЗСВЕДИ         +034132         0000017           РАЗСВЕДИ         +034132         0000017           РАЗСВЕДИ         +034132         0000011           СОННОИ         +034151         0000011           СОННОИ         +034151         0000011           СОННОИ         +034151         0000011           СОННОИ         +034154         0000011           СОННОИ         +034157         0000010           СОННОИ         +034157         0000011           СОННОИ         +034
РАЗОБКАН         +032072         0000067           РАЗОБКАН         +032072         0000067           РАЗОБКАН         +032325         0000067           РАЗОБКАН         +032749         0000131           РАЗОБКАН         +032749         0000164           РАЗОБКАН         +033162         0000167           РАЗОБКАН         +033162         0000167           РАЗОБКАН         +033162         0000167           РАЗОБКАН         +034132         0000167           РАЗОБКАН         +034132         0000017           РАЗОБКАН         +034132         0000017           РАЗОБКАН         +034132         0000017           СОННОИ         +034154         0000017           СОННОИ         +034154         0000017           СОННОИ         +034154         0000010           СОННОИ         +034175         0000001           СОННОИ         +034217 <td>PROGRAM         +032072         00000233           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032745         0000151           PROGRAM         +032745         0000151           PROGRAM         +033745         0000164           PROGRAM         +033274         0000110           PROGRAM         +033274         0000167           PROGRAM         +033274         0000167           PROGRAM         +033274         0000167           PROGRAM         +033272         0000167           PROGRAM         +03372         0000167           PROGRAM         +034132         0000167           PROGRAM         +034161         0000167           PROGRAM         +034161         0000167           PROGRAM         +034161         0000167           PROGRAM         +034161         0000167           COHHON         +034164         000011           COHHON         +034164         0000011           COHHON         +034216         000</td> <td>  PROGRAM + 032072   0000053</td> <td>  PROGRAM + 032072 0000053   PROGRAM + 032545 0000051   PROGRAM + 032545 00000131   PROGRAM + 032545 00000151   PROGRAM + 032745 00000151   PROGRAM + 033745 00000151   PROGRAM + 033745 00000152   PROGRAM + 033324 0000152   PROGRAM + 033324 00000152   PROGRAM + 033125 00000152   PROGRAM + 033125 00000152   PROGRAM + 033125 00000152   PROGRAM + 033127 00000152   COHHON + 034125 0000017   COHHON + 034125 0000017   COHHON + 034125 0000017   COHHON + 034214 0000017   COHHON + 034217 0000017   COHHON + 034210 0000117   COHHON + 034250 0000111   COHHON + 034250 0000111   COHHON + 034250 0000111   COHHON + 03456 00000111   COHHON + 034250 00000111   COHHON + 03456 00000111</td> <td>РАЗОБКАН         +032072         0000067           РАЗОБКАН         +032072         0000067           РАЗОБКАН         +032545         0000067           РАЗОБКАН         +032749         0000131           РАЗОБКАН         +032749         0000167           РАЗОБКАН         +032749         0000167           РАЗОБКАН         +03376         0000167           РАЗОБКАН         +033376         0000167           РАЗОБКАН         +033376         0000167           РАЗОБКАН         +033376         0000167           РАЗОБКАН         +033376         0000167           РАЗОБКАН         +034106         000011           РАЗОБКАН         +034107         000011           РАЗОБКАН         +034132         000011           РАЗОБКАН         +034132         000011           СОННОИ         +034159         000001           СОННОИ         +034159         0</td> <td>PROGRAM         +032072         00000233           PROGRAM         +032046         00000131           PROGRAM         +032546         0000131           PROGRAM         +032546         0000131           PROGRAM         +032546         0000131           PROGRAM         +032740         0000151           PROGRAM         +032745         0000151           PROGRAM         +03374         0000167           PROGRAM         +03374         0000110           PROGRAM         +033162         0000110           PROGRAM         +03317         0000016           PROGRAM         +03417         0000011           COHHON         +03415         0000011           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03426         000001           COHHON         +03426         000001           COHHON         +03426         000001</td>	PROGRAM         +032072         00000233           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032745         0000151           PROGRAM         +032745         0000151           PROGRAM         +033745         0000164           PROGRAM         +033274         0000110           PROGRAM         +033274         0000167           PROGRAM         +033274         0000167           PROGRAM         +033274         0000167           PROGRAM         +033272         0000167           PROGRAM         +03372         0000167           PROGRAM         +034132         0000167           PROGRAM         +034161         0000167           PROGRAM         +034161         0000167           PROGRAM         +034161         0000167           PROGRAM         +034161         0000167           COHHON         +034164         000011           COHHON         +034164         0000011           COHHON         +034216         000	PROGRAM + 032072   0000053	PROGRAM + 032072 0000053   PROGRAM + 032545 0000051   PROGRAM + 032545 00000131   PROGRAM + 032545 00000151   PROGRAM + 032745 00000151   PROGRAM + 033745 00000151   PROGRAM + 033745 00000152   PROGRAM + 033324 0000152   PROGRAM + 033324 00000152   PROGRAM + 033125 00000152   PROGRAM + 033125 00000152   PROGRAM + 033125 00000152   PROGRAM + 033127 00000152   COHHON + 034125 0000017   COHHON + 034125 0000017   COHHON + 034125 0000017   COHHON + 034214 0000017   COHHON + 034217 0000017   COHHON + 034210 0000117   COHHON + 034250 0000111   COHHON + 034250 0000111   COHHON + 034250 0000111   COHHON + 03456 00000111   COHHON + 034250 00000111   COHHON + 03456 00000111	РАЗОБКАН         +032072         0000067           РАЗОБКАН         +032072         0000067           РАЗОБКАН         +032545         0000067           РАЗОБКАН         +032749         0000131           РАЗОБКАН         +032749         0000167           РАЗОБКАН         +032749         0000167           РАЗОБКАН         +03376         0000167           РАЗОБКАН         +033376         0000167           РАЗОБКАН         +033376         0000167           РАЗОБКАН         +033376         0000167           РАЗОБКАН         +033376         0000167           РАЗОБКАН         +034106         000011           РАЗОБКАН         +034107         000011           РАЗОБКАН         +034132         000011           РАЗОБКАН         +034132         000011           СОННОИ         +034159         000001           СОННОИ         +034159         0	PROGRAM         +032072         00000233           PROGRAM         +032046         00000131           PROGRAM         +032546         0000131           PROGRAM         +032546         0000131           PROGRAM         +032546         0000131           PROGRAM         +032740         0000151           PROGRAM         +032745         0000151           PROGRAM         +03374         0000167           PROGRAM         +03374         0000110           PROGRAM         +033162         0000110           PROGRAM         +03317         0000016           PROGRAM         +03417         0000011           COHHON         +03415         0000011           COHHON         +03415         000001           COHHON         +03415         000001           COHHON         +03426         000001           COHHON         +03426         000001           COHHON         +03426         000001
PAGGRAH         +03325         0000067           PROGRAH         +03325         0000067           PROGRAH         +032545         0000131           PROGRAH         +032545         0000131           PROGRAH         +032746         0000131           PROGRAH         +032745         0000151           PROGRAH         +033745         00000151           PROGRAH         +033274         00000164           PROGRAH         +033274         0000011           PROGRAH         +033274         00000167           PROGRAH         +033274         00000167           PROGRAH         +033274         0000017           PROGRAH         +03317         0000017           PROGRAH         +03417         0000017           COHHON         +03417         0000017           COHHON         +03429         0000011           COHHON         +034217         0000	PAGGRAH         +03325         0000233           PROGRAH         +03325         0000067           PROGRAH         +032545         0000131           PROGRAH         +032545         0000131           PROGRAH         +032746         0000151           PROGRAH         +032745         0000151           PROGRAH         +033745         00000164           PROGRAH         +033274         00000164           PROGRAH         +033274         00000164           PROGRAH         +033274         00000167           PROGRAH         +033274         0000017           PROGRAH         +033274         00000167           PROGRAH         +033274         0000017           PROGRAH         +033274         0000017           PROGRAH         +033274         0000017           PROGRAH         +033274         0000017           PROGRAH         +03312         0000017           PROGRAH         +03312         0000017           PROGRAH         +03312         0000017           PROGRAH         +03412         0000017           COHHON         +03412         0000017           COHHON         +03412         0000	PAGGRAM	PAGGRAM	РАЗСКАН         4032072         00000233           РАЗСКАН         403225         0000067           РАЗСКАН         403225         0000131           РАЗСКАН         403274         0000131           РАЗСКАН         403274         0000131           РАЗСКАН         403274         0000151           РАЗСКАН         403376         000011           РАЗСКАН         4033276         0000164           РАЗСКАН         4033276         0000167           РАЗСКАН         4033374         0000065           РАЗСКАН         4033374         0000067           РАЗСКАН         4033374         0000067           РАЗСКАН         4033374         0000067           РАЗСКАН         403412         000001           РАЗСКАН         403412         000001           РАЗСКАН         403413         000001           СОННОИ         403415         000001           СОННОИ         403421         000001      <	PAGGRAM
PROGRAM         +032072         00000233           PROGRAM         +032325         00000131           PROGRAM         +032325         00001131           PROGRAM         +032740         0000131           PROGRAM         +032740         0000131           PROGRAM         +032740         0000131           PROGRAM         +032740         0000142           PROGRAM         +032740         0000142           PROGRAM         +032740         0000142           PROGRAM         +032162         0000142           PROGRAM         +032162         000014           PROGRAM         +032162         000014           PROGRAM         +033162         000014           PROGRAM         +033162         000014           PROGRAM         +033162         000014           PROGRAM         +033167         000011           PROGRAM         +0341367         0000017           PROGRAM         +0341367         0000017           COMHON         +034159         0000010           COMHON         +034159         0000010           COMHON         +034216         0000010           COMHON         +034236         0000	РАФСКАН         +032072         0000233           РАФСКАН         +03325         00000131           РАФСКАН         +03325         00001131           РАФСКАН         +03370         00001131           РАФСКАН         +03370         00001151           РАФСКАН         +03374         00001151           РАФСКАН         +033076         0000116           РАФСКАН         +033076         0000116           РАФСКАН         +033167         0000116           РАФСКАН         +033076         0000116           РАФСКАН         +033167         0000116           РАФСКАН         +033127         0000116           РАФСКАН         +033127         0000116           РАФСКАН         +033127         0000116           РАФСКАН         +034127         0000017           СОННОИ         +034137         0000017           СОННОИ         +034137         0000017           СОННОИ         +034137         000001           СОННОИ         +034136         000001           СОННОИ         +034136         000001           СОННОИ         +034136         000001           СОННОИ         +034136         000001 <td>  PROGRAM</td> <td>PROGRAM         +032072         00000233           PROGRAM         +03235         0000067           PROGRAM         +03235         00000131           PROGRAM         +032375         00000131           PROGRAM         +032745         0000011           PROGRAM         +033274         0000017           PROGRAM         +033274         0000017           PROGRAM         +033274         0000017           PROGRAM         +03327         0000017           PROGRAM         +03327         0000017           PROGRAM         +03312         0000017           PROGRAM         +03312         0000017           PROGRAM         +03413         0000017           COHHON         +03415         0000017           COHHON         +03415         0000017           COHHON         +03415         0000001<!--</td--><td>  PROGRAM</td><td>  PROGRAM</td></td>	PROGRAM	PROGRAM         +032072         00000233           PROGRAM         +03235         0000067           PROGRAM         +03235         00000131           PROGRAM         +032375         00000131           PROGRAM         +032745         0000011           PROGRAM         +033274         0000017           PROGRAM         +033274         0000017           PROGRAM         +033274         0000017           PROGRAM         +03327         0000017           PROGRAM         +03327         0000017           PROGRAM         +03312         0000017           PROGRAM         +03312         0000017           PROGRAM         +03413         0000017           COHHON         +03415         0000017           COHHON         +03415         0000017           COHHON         +03415         0000001 </td <td>  PROGRAM</td> <td>  PROGRAM</td>	PROGRAM	PROGRAM
РАЗСКАН         + 032072         0000623           РАЗСКАН         + 032325         0000613           РАЗСКАН         + 032325         000013           РАЗСКАН         + 032545         000013           РАЗСКАН         + 03274         000013           РАЗСКАН         + 03274         000013           РАЗСКАН         + 03326         000013           РАЗСКАН         + 03327         000014           РАЗСКАН         + 03327         000014           РАЗСКАН         + 03327         000017           РАЗСКАН         + 03367         000017           РАЗСКАН         + 03367         000017           РАЗСКАН         + 03367         000017           РАЗСКАН         + 03367         000017           РАЗСКАН         + 03412         000017           РАЗСКАН         + 03412         000017           РАЗСКАН         + 03412         000017           РАЗСКАН         + 03413         000017           СОННОИ         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03416         000001           СОННОИ         + 03416         00001 </td <td>  PROGRAM</td> <td>РАЗСВАН         + 03325         0000633           РАЗСВАН         + 03325         0000613           РАЗСВАН         + 03325         000013           РАЗСВАН         + 03326         000013           РАЗСВАН         + 03326         000013           РАЗСВАН         + 03326         000013           РАЗСВАН         + 03326         000015           РАЗСВАН         + 03326         000015           РАЗСВАН         + 03326         000015           РАЗСВАН         + 03326         000015           РАЗСВАН         + 03327         000015           РАЗСВАН         + 03317         000015           РАЗСВАН         + 03317         000015           РАЗСВАН         + 03413         000011           РАЗСВАН         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001</td> <td>PROGRAM         +032072         00006233           PROGRAM         +032072         00006233           PROGRAM         +032072         0000613           PROGRAM         +032072         0000613           PROGRAM         +032072         0000613           PROGRAM         +032072         0000613           PROGRAM         +032072         0000614           PROGRAM         +032072         0000616           PROGRAM         +032072         0000616           PROGRAM         +033076         0000616           PROGRAM         +033076         0000616           PROGRAM         +033076         0000616           PROGRAM         +033076         0000616           PROGRAM         +03307         0000617           PROGRAM         +03412         0000617           COHHON         +03412         0000617           COHHON         +03412         0000611&lt;</td> <td>PROGRAM         +032072         00006233           PROGRAM         +032072         0000613           PROGRAM         +032072         0000613           PROGRAM         +032072         0000613           PROGRAM         +032076         0000113           PROGRAM         +032076         0000113           PROGRAM         +032076         0000116           PROGRAM         +033076         0000167           PROGRAM         +033076         000017           PROGRAM         +03307         0000017           PROGRAM         +03307         0000017           PROGRAM         +03367         0000017           PROGRAM         +03413         0000017           PROGRAM         +03413         0000017           PROGRAM         +03413         0000017           COHHON         +03413         0000017           COHHON         +03413         0000011<!--</td--><td>  PROGRAM</td></td>	PROGRAM	РАЗСВАН         + 03325         0000633           РАЗСВАН         + 03325         0000613           РАЗСВАН         + 03325         000013           РАЗСВАН         + 03326         000013           РАЗСВАН         + 03326         000013           РАЗСВАН         + 03326         000013           РАЗСВАН         + 03326         000015           РАЗСВАН         + 03326         000015           РАЗСВАН         + 03326         000015           РАЗСВАН         + 03326         000015           РАЗСВАН         + 03327         000015           РАЗСВАН         + 03317         000015           РАЗСВАН         + 03317         000015           РАЗСВАН         + 03413         000011           РАЗСВАН         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001	PROGRAM         +032072         00006233           PROGRAM         +032072         00006233           PROGRAM         +032072         0000613           PROGRAM         +032072         0000613           PROGRAM         +032072         0000613           PROGRAM         +032072         0000613           PROGRAM         +032072         0000614           PROGRAM         +032072         0000616           PROGRAM         +032072         0000616           PROGRAM         +033076         0000616           PROGRAM         +033076         0000616           PROGRAM         +033076         0000616           PROGRAM         +033076         0000616           PROGRAM         +03307         0000617           PROGRAM         +03412         0000617           COHHON         +03412         0000617           COHHON         +03412         0000611<	PROGRAM         +032072         00006233           PROGRAM         +032072         0000613           PROGRAM         +032072         0000613           PROGRAM         +032072         0000613           PROGRAM         +032076         0000113           PROGRAM         +032076         0000113           PROGRAM         +032076         0000116           PROGRAM         +033076         0000167           PROGRAM         +033076         000017           PROGRAM         +03307         0000017           PROGRAM         +03307         0000017           PROGRAM         +03367         0000017           PROGRAM         +03413         0000017           PROGRAM         +03413         0000017           PROGRAM         +03413         0000017           COHHON         +03413         0000017           COHHON         +03413         0000011 </td <td>  PROGRAM</td>	PROGRAM
PROGRAM + 0329472   00006233   PROGRAM + 032925   0000133   PROGRAM + 032926   0000133   PROGRAM + 032929   0000133   PROGRAM + 032929   0000133   PROGRAM + 032929   0000134   PROGRAM + 033926   0000136   PROGRAM + 033926   0000136   PROGRAM + 033926   0000136   PROGRAM + 033427   0000012   PROGRAM + 033428   0000012   PROGRAM + 03	PROGRAM + 033472   00006233   PROGRAM + 03325   0000133   PROGRAM + 03325   0000133   PROGRAM + 033274   0000133   PROGRAM + 033740   0000134   PROGRAM + 033740   0000110   PROGRAM + 033740   0000110   PROGRAM + 033740   0000110   PROGRAM + 033740   0000110   PROGRAM + 03372   0000110   PROGRAM + 03372   0000110   PROGRAM + 03372   0000110   PROGRAM + 03372   0000110   PROGRAM + 034132   00000110   PROGRAM + 034132   00000110   PROGRAM + 034132   00000110   PROGRAM + 034132   00000110   PROGRAM + 034135   00000110   PROGRAM + 034132   00000110   PROGRAM + 034132   00000110   PROGRAM + 034134   00000110   PROGRAM + 034135   00000110   PROGRAM + 034135   00000110   PROGRAM + 034134   00000110   PROGRAM + 03424   00000110   PROGRAM + 03441   PROGRAM + 03441   PROGRAM + 03441   PROGRA	PROGRAM + 032472   00006233   PROGRAM + 032325   0000133   PROGRAM + 032325   0000133   PROGRAM + 032325   0000133   PROGRAM + 032745   0000133   PROGRAM + 033745   0000134   PROGRAM + 033745   0000134   PROGRAM + 03324   0000134   PROGRAM + 03324   0000134   PROGRAM + 03324   0000134   PROGRAM + 03324   0000014   PROGRAM + 033612   0000014   PROGRAM + 033612   0000014   PROGRAM + 033612   0000014   PROGRAM + 033612   0000014   PROGRAM + 034132   0000014   PROGRAM + 034214   P	PROGRAM + 0334/2   00006233   PROGRAM + 0334/2   0000633   PROGRAM + 03324   0000133   PROGRAM + 03324   0000133   PROGRAM + 03324   0000133   PROGRAM + 03324   0000134   PROGRAM + 03324   0000134   PROGRAM + 03324   0000140   PROGRAM + 03324   0000140   PROGRAM + 03324   000014   PROGRAM + 03367   0000014   PROGRAM + 033420   0000014   PROGRAM + 03413   0000014   PROGRAM + 03424   0000014   PROGRAM + 03424   0000014   PROGRAM + 03421   0000014   PROGRAM + 03421   PROGRAM + 034221	PROGRAM + 033472   0000433   PROGRAM + 033414   0000133   PROGRAM + 03325   0000133   PROGRAM + 03325   0000133   PROGRAM + 033274   0000133   PROGRAM + 033274   0000134   PROGRAM + 033274   0000137   PROGRAM + 033274   0000137   PROGRAM + 033274   0000125   PROGRAM + 033274   0000125   PROGRAM + 033274   0000025   PROGRAM + 033274   0000025   PROGRAM + 033274   0000025   PROGRAM + 033677   0000017   PROGRAM + 033674   DROGRAM + 033674   DRO	PROGRAM + 033472   00006233   PROGRAM + 03325   0000133   PROGRAM + 03325   0000133   PROGRAM + 03325   0000133   PROGRAM + 0332745   0000135   PROGRAM + 0332745   0000135   PROGRAM + 033274   0000135   PROGRAM + 033274   0000137   PROGRAM + 033274   0000017   PROGRAM + 033274   0000017   PROGRAM + 033274   0000017   PROGRAM + 033274   0000017   PROGRAM + 033472   0000017   PROGRAM + 033472   0000017   PROGRAM + 033424   0000017   PROGRAM + 033421   PROGRAM + 033426   PROGRAM + 033421   PROGRAM + 033422   PROGRAM + 033422   PROGRAM + 033422   PROGRAM + 033422   PROGRAM
PROGRAM + 034472 00000403	PROGRAM + 034472 00000403	PROGRAM + 033472 00005400	PROGRAM + 033472 00005033	PROGRAM + 034472 000004033	PROGRAM + 033472
PROGRAM         + 034472         0000633           PROGRAM         + 032545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033745         0000131           PROGRAM         + 033745         0000131           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033076         0000110           PROGRAM         + 033072         0000017           PROGRAM         + 033612         0000017           PROGRAM         + 033612         0000017           PROGRAM         + 033612         0000017           PROGRAM         + 034132         0000017           PROGRAM         + 034132         0000017           PROGRAM         + 034132         0000017           PROGRAM         + 034132         0000017           COHHON         + 034132         0000017           COHHON         + 03413         0000017           COHHON         + 03415         0000017           COHHON         + 03415 </td <td>PROGRAM         + 034472         0000633           PROGRAM         + 032545         0000131           PROGRAM         + 032545         0000131           PROGRAM         + 032545         0000131           PROGRAM         + 032745         0000131           PROGRAM         + 032745         0000143           PROGRAM         + 032745         000014           PROGRAM         + 032745         000014           PROGRAM         + 033745         000014           PROGRAM         + 033076         000014           PROGRAM         + 033076         000014           PROGRAM         + 033612         000016           PROGRAM         + 033612         000016           PROGRAM         + 033612         0000015           PROGRAM         + 034132         0000016           PROGRAM         + 034132         0000016           PROGRAM         + 034132         0000017           PROGRAM         + 034132         0000017           PROGRAM         + 034132         0000017           COHHON         + 034134         0000017           COHHON         + 034134         00000017           COHHON         + 034134<td>РАССКАМ         + 034472         0000633           РАССКАМ         + 032545         0000131           РАССКАМ         + 032545         0000131           РАССКАМ         + 032745         0000131           РАССКАМ         + 032745         0000131           РАССКАМ         + 032745         0000143           РАССКАМ         + 032745         0000164           РАССКАМ         + 032745         0000164           РАССКАМ         + 033745         0000110           РАССКАМ         + 033076         0000110           РАССКАМ         + 033077         0000110           РАССКАМ         + 033167         0000110           РАССКАМ         + 034132         0000017           РАССКАМ         + 034132         0000017           РАССКАМ         + 034157         0000017           РАССКАМ         + 034151         0000017           РАССКАМ         + 034151         0000017           СОННОМ         + 034154         0000017           СОННОМ         + 034154         0000011           СОННОМ         + 034157         0000010           СОННОМ         + 034156         0000011           СОННОМ         + 03415</td><td>РАССКАН         + 034472         0000633           РАССКАН         + 032615         0000131           РАССКАН         + 032545         0000131           РАССКАН         + 032545         0000131           РАССКАН         + 032745         0000131           РАССКАН         + 032745         0000131           РАССКАН         + 032745         0000164           РАССКАН         + 033745         0000164           РАССКАН         + 033745         0000112           РАССКАН         + 033264         0000114           РАССКАН         + 033264         0000116           РАССКАН         + 03377         0000055           РАССКАН         + 034132         0000011           РАССКАН         + 034132         0000011           РАССКАН         + 034132         0000011           СОННОИ         + 034154         0000011           СОННОИ         + 034154         0000011           СОННОИ         + 034157         0000011           СОННОИ         + 034154         0000011           СОННОИ         + 034157         0000011           СОННОИ         + 034156         0000011           СОННОИ         + 034157<!--</td--><td>PROGRAM         + 034472         0000633           PROGRAM         + 032545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033745         0000113           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033724         0000110           PROGRAM         + 03372         0000011           PROGRAM         + 03372         000001           PROGRAM         + 03413         000001           PROGRAM         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         &lt;</td><td>PROGRAM         +034472         0000603           PROGRAM         +032615         0000633           PROGRAM         +033545         0000131           PROGRAM         +033545         0000131           PROGRAM         +033746         00001131           PROGRAM         +033745         0000164           PROGRAM         +033745         0000164           PROGRAM         +033745         0000164           PROGRAM         +033745         0000110           PROGRAM         +033726         0000110           PROGRAM         +033727         0000110           PROGRAM         +03377         0000015           PROGRAM         +034132         0000011           PROGRAM         +034132         0000017           PROGRAM         +034132         0000017           PROGRAM         +034141         0000017           PROGRAM         +034151         0000017           PROGRAM         +034151         0000017           PROGRAM         +034161         0000017           COHHON         +034164         0000011           COHHON         +034266         0000011           COHHON         +03423         000</td></td></td>	PROGRAM         + 034472         0000633           PROGRAM         + 032545         0000131           PROGRAM         + 032545         0000131           PROGRAM         + 032545         0000131           PROGRAM         + 032745         0000131           PROGRAM         + 032745         0000143           PROGRAM         + 032745         000014           PROGRAM         + 032745         000014           PROGRAM         + 033745         000014           PROGRAM         + 033076         000014           PROGRAM         + 033076         000014           PROGRAM         + 033612         000016           PROGRAM         + 033612         000016           PROGRAM         + 033612         0000015           PROGRAM         + 034132         0000016           PROGRAM         + 034132         0000016           PROGRAM         + 034132         0000017           PROGRAM         + 034132         0000017           PROGRAM         + 034132         0000017           COHHON         + 034134         0000017           COHHON         + 034134         00000017           COHHON         + 034134 <td>РАССКАМ         + 034472         0000633           РАССКАМ         + 032545         0000131           РАССКАМ         + 032545         0000131           РАССКАМ         + 032745         0000131           РАССКАМ         + 032745         0000131           РАССКАМ         + 032745         0000143           РАССКАМ         + 032745         0000164           РАССКАМ         + 032745         0000164           РАССКАМ         + 033745         0000110           РАССКАМ         + 033076         0000110           РАССКАМ         + 033077         0000110           РАССКАМ         + 033167         0000110           РАССКАМ         + 034132         0000017           РАССКАМ         + 034132         0000017           РАССКАМ         + 034157         0000017           РАССКАМ         + 034151         0000017           РАССКАМ         + 034151         0000017           СОННОМ         + 034154         0000017           СОННОМ         + 034154         0000011           СОННОМ         + 034157         0000010           СОННОМ         + 034156         0000011           СОННОМ         + 03415</td> <td>РАССКАН         + 034472         0000633           РАССКАН         + 032615         0000131           РАССКАН         + 032545         0000131           РАССКАН         + 032545         0000131           РАССКАН         + 032745         0000131           РАССКАН         + 032745         0000131           РАССКАН         + 032745         0000164           РАССКАН         + 033745         0000164           РАССКАН         + 033745         0000112           РАССКАН         + 033264         0000114           РАССКАН         + 033264         0000116           РАССКАН         + 03377         0000055           РАССКАН         + 034132         0000011           РАССКАН         + 034132         0000011           РАССКАН         + 034132         0000011           СОННОИ         + 034154         0000011           СОННОИ         + 034154         0000011           СОННОИ         + 034157         0000011           СОННОИ         + 034154         0000011           СОННОИ         + 034157         0000011           СОННОИ         + 034156         0000011           СОННОИ         + 034157<!--</td--><td>PROGRAM         + 034472         0000633           PROGRAM         + 032545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033745         0000113           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033724         0000110           PROGRAM         + 03372         0000011           PROGRAM         + 03372         000001           PROGRAM         + 03413         000001           PROGRAM         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         &lt;</td><td>PROGRAM         +034472         0000603           PROGRAM         +032615         0000633           PROGRAM         +033545         0000131           PROGRAM         +033545         0000131           PROGRAM         +033746         00001131           PROGRAM         +033745         0000164           PROGRAM         +033745         0000164           PROGRAM         +033745         0000164           PROGRAM         +033745         0000110           PROGRAM         +033726         0000110           PROGRAM         +033727         0000110           PROGRAM         +03377         0000015           PROGRAM         +034132         0000011           PROGRAM         +034132         0000017           PROGRAM         +034132         0000017           PROGRAM         +034141         0000017           PROGRAM         +034151         0000017           PROGRAM         +034151         0000017           PROGRAM         +034161         0000017           COHHON         +034164         0000011           COHHON         +034266         0000011           COHHON         +03423         000</td></td>	РАССКАМ         + 034472         0000633           РАССКАМ         + 032545         0000131           РАССКАМ         + 032545         0000131           РАССКАМ         + 032745         0000131           РАССКАМ         + 032745         0000131           РАССКАМ         + 032745         0000143           РАССКАМ         + 032745         0000164           РАССКАМ         + 032745         0000164           РАССКАМ         + 033745         0000110           РАССКАМ         + 033076         0000110           РАССКАМ         + 033077         0000110           РАССКАМ         + 033167         0000110           РАССКАМ         + 034132         0000017           РАССКАМ         + 034132         0000017           РАССКАМ         + 034157         0000017           РАССКАМ         + 034151         0000017           РАССКАМ         + 034151         0000017           СОННОМ         + 034154         0000017           СОННОМ         + 034154         0000011           СОННОМ         + 034157         0000010           СОННОМ         + 034156         0000011           СОННОМ         + 03415	РАССКАН         + 034472         0000633           РАССКАН         + 032615         0000131           РАССКАН         + 032545         0000131           РАССКАН         + 032545         0000131           РАССКАН         + 032745         0000131           РАССКАН         + 032745         0000131           РАССКАН         + 032745         0000164           РАССКАН         + 033745         0000164           РАССКАН         + 033745         0000112           РАССКАН         + 033264         0000114           РАССКАН         + 033264         0000116           РАССКАН         + 03377         0000055           РАССКАН         + 034132         0000011           РАССКАН         + 034132         0000011           РАССКАН         + 034132         0000011           СОННОИ         + 034154         0000011           СОННОИ         + 034154         0000011           СОННОИ         + 034157         0000011           СОННОИ         + 034154         0000011           СОННОИ         + 034157         0000011           СОННОИ         + 034156         0000011           СОННОИ         + 034157 </td <td>PROGRAM         + 034472         0000633           PROGRAM         + 032545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033745         0000113           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033724         0000110           PROGRAM         + 03372         0000011           PROGRAM         + 03372         000001           PROGRAM         + 03413         000001           PROGRAM         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         &lt;</td> <td>PROGRAM         +034472         0000603           PROGRAM         +032615         0000633           PROGRAM         +033545         0000131           PROGRAM         +033545         0000131           PROGRAM         +033746         00001131           PROGRAM         +033745         0000164           PROGRAM         +033745         0000164           PROGRAM         +033745         0000164           PROGRAM         +033745         0000110           PROGRAM         +033726         0000110           PROGRAM         +033727         0000110           PROGRAM         +03377         0000015           PROGRAM         +034132         0000011           PROGRAM         +034132         0000017           PROGRAM         +034132         0000017           PROGRAM         +034141         0000017           PROGRAM         +034151         0000017           PROGRAM         +034151         0000017           PROGRAM         +034161         0000017           COHHON         +034164         0000011           COHHON         +034266         0000011           COHHON         +03423         000</td>	PROGRAM         + 034472         0000633           PROGRAM         + 032545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033545         0000131           PROGRAM         + 033745         0000113           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 033724         0000110           PROGRAM         + 03372         0000011           PROGRAM         + 03372         000001           PROGRAM         + 03413         000001           PROGRAM         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         <	PROGRAM         +034472         0000603           PROGRAM         +032615         0000633           PROGRAM         +033545         0000131           PROGRAM         +033545         0000131           PROGRAM         +033746         00001131           PROGRAM         +033745         0000164           PROGRAM         +033745         0000164           PROGRAM         +033745         0000164           PROGRAM         +033745         0000110           PROGRAM         +033726         0000110           PROGRAM         +033727         0000110           PROGRAM         +03377         0000015           PROGRAM         +034132         0000011           PROGRAM         +034132         0000017           PROGRAM         +034132         0000017           PROGRAM         +034141         0000017           PROGRAM         +034151         0000017           PROGRAM         +034151         0000017           PROGRAM         +034161         0000017           COHHON         +034164         0000011           COHHON         +034266         0000011           COHHON         +03423         000
РКОСКАН         + 031472         0000400           РКОСКАН         + 032472         0000433           РКОСКАН         + 032545         0000131           РКОСКАН         + 032545         0000131           РКОСКАН         + 032745         0000131           РКОСКАН         + 032745         0000131           РКОСКАН         + 032745         0000143           РКОСКАН         + 032745         0000164           РКОСКАН         + 033745         0000110           РКОСКАН         + 033076         0000110           РКОСКАН         + 033077         0000110           РКОСКАН         + 033472         0000015           РКОСКАН         + 034432         0000017           РКОСКАН         + 034432         0000017           РКОСКАН         + 034412         0000017           РКОСКАН         + 034412         0000017           РКОСКАН         + 034412         0000017           СОННОИ         + 034416         0000017           СОННОИ         + 034416         0000017           СОННОИ         + 034216         0000017           СОННОИ         + 034216         0000017           СОННОИ         + 03421	РЯССКАН         + 031472         0000040           РЯССКАН         + 032472         00000433           РЯССКАН         + 032545         0000131           РЯССКАН         + 032545         0000131           РЯССКАН         + 032545         0000131           РЯССКАН         + 032745         0000131           РЯССКАН         + 032745         0000164           РЯССКАН         + 033745         0000164           РЯССКАН         + 033076         0000110           РЯССКАН         + 033076         0000110           РЯССКАН         + 033076         0000110           РЯССКАН         + 033077         0000017           РЯССКАН         + 033016         0000017           РЯССКАН         + 034132         0000017           РЯССКАН         + 034157         0000017           РЯССКАН         + 034164         0000017           РЯССКАН         + 034164         0000017           СОННОИ         + 034164         0000017           СОННОИ         + 034164         0000017           СОННОИ         + 034164         0000011           СОННОИ         + 034164         0000011           СОННОИ         + 0341	РКОСКАН         + 031472         00000400           РКОСКАН         + 032472         00000233           РКОСКАН         + 033545         00000131           РКОСКАН         + 033545         00000131           РКОСКАН         + 033545         00000131           РКОСКАН         + 033545         00000131           РКОСКАН         + 033745         0000064           РКОСКАН         + 033745         0000064           РКОСКАН         + 033745         0000110           РКОСКАН         + 033274         0000017           РКОСКАН         + 03417         0000017           СОННОИ         + 03412         0000017           СОННОИ         + 03412         0000017           СОННОИ         + 03417         000001           СОННОИ         + 034217         000001           СОННОИ         + 034217         000001           СОННОИ         + 034217<	РКОСКАН         + 031472         00000400           РКОСКАН         + 032672         00000233           РКОСКАН         + 032545         00000131           РКОСКАН         + 032545         0000131           РКОСКАН         + 032545         0000131           РКОСКАН         + 032745         0000131           РКОСКАН         + 032745         0000151           РКОСКАН         + 033745         0000110           РКОСКАН         + 033274         0000110           РКОСКАН         + 033272         0000011           РКОСКАН         + 034170         0000011           РКОСКАН         + 034121         0000011           РКОСКАН         + 034121         0000011           СОННОМ         + 034120         0000011           СОННОМ         + 034217         0000011           СОННОМ         + 034217         0000011           СОННОМ         + 034217         0000011           СОННОМ         + 03	РКОСКАН         + 031472         00000400           РКОСКАН         + 033272         00000233           РКОСКАН         + 0332415         0000131           РКОСКАН         + 032545         0000131           РКОСКАН         + 032545         0000131           РКОСКАН         + 032545         0000131           РКОСКАН         + 032545         0000164           РКОСКАН         + 032545         0000164           РКОСКАН         + 033274         0000167           РКОСКАН         + 033324         0000110           РКОСКАН         + 033324         0000110           РКОСКАН         + 033324         0000110           РКОСКАН         + 033324         0000110           РКОСКАН         + 033374         0000011           РКОСКАН         + 034151         0000011           РКОСКАН         + 034151         000001           СОННОМ         + 034151         000001           СОННОМ         + 034154         000001           СОННОМ         + 034154         000001           СОННОМ         + 034154         000001           СОННОМ         + 034154         000001           СОННОМ         + 034156 <td>РЯССКАН         + 031472         0000040           РЯССКАН         + 033272         00000233           РЯССКАН         + 0332745         00000131           РЯССКАН         + 0332745         00000131           РЯССКАН         + 0332745         00000131           РЯССКАН         + 0332745         00000131           РЯССКАН         + 033274         00000121           РЯССКАН         + 033274         0000011           РЯССКАН         + 03412         0000011           РЯССКАН         + 03413         0000011           РАССКАН         + 03413         0000011           СОННОИ         + 03415         0000017           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03426</td>	РЯССКАН         + 031472         0000040           РЯССКАН         + 033272         00000233           РЯССКАН         + 0332745         00000131           РЯССКАН         + 0332745         00000131           РЯССКАН         + 0332745         00000131           РЯССКАН         + 0332745         00000131           РЯССКАН         + 033274         00000121           РЯССКАН         + 033274         0000011           РЯССКАН         + 03412         0000011           РЯССКАН         + 03413         0000011           РАССКАН         + 03413         0000011           СОННОИ         + 03415         0000017           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03426
РЕОСКАН         +03472         000040           РЕОСКАН         +03472         000040           РЕОСКАН         +032975         0000131           РЕОСКАН         +032976         0000131           РЕОСКАН         +032970         0000131           РЕОСКАН         +032749         0000131           РЕОСКАН         +032749         0000142           РЕОСКАН         +032749         0000142           РЕОСКАН         +033749         0000164           РЕОСКАН         +033749         0000164           РЕОСКАН         +033749         0000164           РЕОСКАН         +033749         0000164           РЕОСКАН         +033374         0000017           РЕОСКАН         +033374         0000017           РЕОСКАН         +034152         0000017           РЕОСКАН         +034152         0000017           РЕОСКАН         +034154         0000017           РЕОСКАН         +034154         0000017           СОННОИ         +034154         0000010           СОННОИ         +034154         0000010           СОННОИ         +034175         0000010           СОННОИ         +034217         000001	PROGRAM	РЕОСЕДИ         +03472         000040           РЕОСЕДИ         +03472         000040           РЕОСЕДИ         +032545         0000131           РЕОСЕДИ         +032545         0000131           РЕОСЕДИ         +032545         0000131           РЕОСЕДИ         +032545         0000131           РЕОСЕДИ         +032545         0000151           РЕОСЕДИ         +032545         0000151           РЕОСЕДИ         +032545         0000151           РЕОСЕДИ         +03326         000011           РЕОСЕДИ         +033274         000011           РЕОСЕДИ         +033274         000011           РЕОСЕДИ         +033274         000011           РЕОСЕДИ         +033274         000011           РЕОСЕДИ         +033272         000017           РЕОСЕДИ         +033272         000007           РЕОСЕДИ         +034172         000001           СОННОМ         +03412         000001           СОННОМ         +03412         000001           СОННОМ         +03412         000001           СОННОМ         +03421         000001           СОННОМ         +03421         000001	PROGRAM         +03472         0000400           PROGRAM         +03472         0000400           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032545         0000151           PROGRAM         +032545         0000151           PROGRAM         +032545         0000151           PROGRAM         +032545         0000110           PROGRAM         +03326         0000110           PROGRAM         +033274         0000110           PROGRAM         +033274         0000110           PROGRAM         +033274         0000110           PROGRAM         +033274         0000011           PROGRAM         +034210         0000011           PROGRAM         +03412         0000011           PROGRAM         +03412         000001           COHHON         +03412         000001           COHHON         +03421         000001           COHHON         +03421         000001           COHHON         +03421         000001	РЕОСКАН         +03472         000040           РЕОСКАН         +03472         000040           РЕОСКАН         +032472         000040           РЕОСКАН         +032545         0000131           РЕОСКАН         +032746         0000131           РЕОСКАН         +032746         0000131           РЕОСКАН         +032746         0000142           РЕОСКАН         +032746         0000142           РЕОСКАН         +03376         000064           РЕОСКАН         +03376         000064           РЕОСКАН         +033376         000066           РЕОСКАН         +033376         000066           РЕОСКАН         +033377         0000067           РЕОСКАН         +033377         0000067           РЕОСКАН         +03415         000001           РЕОСКАН         +03415         000001           СОННОИ         +03415         000001	РЕОСЕДИ         +03472         000040           РЕОСЕДИ         +03472         000040           РЕОСЕДИ         +032545         0000131           РЕОСЕДИ         +032545         0000131           РЕОСЕДИ         +032545         0000131           РЕОСЕДИ         +032545         0000131           РЕОСЕДИ         +032545         0000151           РЕОСЕДИ         +032545         0000151           РЕОСЕДИ         +032745         0000151           РЕОСЕДИ         +033274         0000110           РЕОСЕДИ         +033274         000011           РЕОСЕДИ         +033274         000011           РЕОСЕДИ         +03327         000001           СОННОИ         +03412         000001           СОННОИ         +03412         000001           СОННОИ         +03412         000001           СОННОИ         +03412         000001           СОННОИ         +03424         000001
РКОСКАН         +03472         00000033           РКОСКАН         +03472         00000033           РКОСКАН         +03275         00000131           РКОСКАН         +03276         0000131           РКОСКАН         +03276         0000131           РКОСКАН         +03276         0000151           РКОСКАН         +03376         00000151           РКОСКАН         +03376         00000151           РКОСКАН         +03376         00000151           РКОСКАН         +03376         00000164           РКОСКАН         +03376         00000164           РКОСКАН         +033167         00000167           РКОСКАН         +033167         00000167           РКОСКАН         +034150         00000167           СОННОМ         +034150         0000016           СОННОМ         +034164         0000016           СОННОМ         +034175         00000016           СОННОМ         +034204         <	PROGRAM	PROGRAM         +03472         0000601           PROGRAM         +03472         0000601           PROGRAM         +03472         0000601           PROGRAM         +03545         0000131           PROGRAM         +03545         0000131           PROGRAM         +03545         0000131           PROGRAM         +03545         0000131           PROGRAM         +03546         000014           PROGRAM         +03524         000016           PROGRAM         +03324         000016           PROGRAM         +03324         000016           PROGRAM         +03324         000016           PROGRAM         +03324         000016           PROGRAM         +03327         000016           PROGRAM         +03327         000016           PROGRAM         +03327         000016           PROGRAM         +03417         000016           PROGRAM         +03417         000016           PROGRAM         +03417         000016           PROGRAM         +03417         000001           COHHON         +03421         000001           COHHON         +03421         000001	PROGRAM	РРОСКАН + 03472 0000607 РРОСКАН + 032072 0000607 РРОСКАН + 03275 0000131 РРОСКАН + 03275 0000131 РРОСКАН + 03274 0000131 РРОСКАН + 03274 0000164 РРОСКАН + 03376 0000164 РРОСКАН + 03376 0000167 РРОСКАН + 03316 0000167 РРОСКАН + 03415 0000017 РРОСКАН + 03415 0000017 РРОСКАН + 03415 0000017 РРОСКАН + 03415 0000017 СОМНОМ + 03415 0000017 СОМНОМ + 03415 0000017 СОМНОМ + 03426 0000017 СОМНОМ + 03426 0000017 СОМНОМ + 03421 0000017 СОМНОМ + 03421 0000017 СОМНОМ + 03425 0000017 СОМНОМ + 03425 0000017 СОМНОМ + 03421 0000017 СОМНОМ + 03421 0000017 СОМНОМ + 03425 0000017 СОМНОМ + 03421 0000017 СОМНОМ + 03451 0000017 СОМНОМ + 03451 0000017	PROGRAM
PROGRAM	PROGRAM	PROGRAM	PROGRAM	PROGRAM	PROGRAM
PROGRAM + 03492   0000133   PROGRAM + 03492   0000131   PROGRAM + 03492   0000131   PROGRAM + 03492   0000131   PROGRAM + 03492   00000142   PROGRAM + 03492   00000142   PROGRAM + 03492   00000142   PROGRAM + 03492   0000014   PROGRAM + 03492   P	РАССКАН + 034450 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 000064 00006	PROGRAM + 034450   0000040233   PROGRAM + 0345450   000004033   PROGRAM + 0345450   000004033   PROGRAM + 0345450   00000433   PROGRAM + 0345450   00000433   PROGRAM + 0345450   00000642   PROGRAM + 0345450   00000642   PROGRAM + 033076   00000642   PROGRAM + 033076   00000642   PROGRAM + 033076   0000065   PROGRAM + 033076   0000065   PROGRAM + 033076   0000065   PROGRAM + 033076   0000016   PROGRAM + 034070   00000	PROGRAM + 033473	PROGRAM	PROGRAM + 033450   00000131   PROGRAM + 033255   00000131   PROGRAM + 032545   00000131   PROGRAM + 032545   00000131   PROGRAM + 032545   00000131   PROGRAM + 032545   00000131   PROGRAM + 0335745   00000131   PROGRAM + 0335745   00000151   PROGRAM + 0335745   00000151   PROGRAM + 033574   0000015   PROGRAM + 033574   0000015   PROGRAM + 033574   0000015   PROGRAM + 033512   0000015   PROGRAM + 03415   0000015   PROGRAM + 03425   0000015   PROGRAM + 03450   0000015
РАССКАМ         + 034430         0000042           РАССКАМ         + 034430         0000433           РАССКАМ         + 03427         0000433           РАССКАМ         + 03427         0000433           РАССКАМ         + 03427         000043           РАССКАМ         + 03427         000043           РАССКАМ         + 03474         000013           РАССКАМ         + 03474         000013           РАССКАМ         + 03474         000014           РАССКАМ         + 03474         000014           РАССКАМ         + 03407         000014           РАССКАМ         + 03407         000014           РАССКАМ         + 03407         000014           РАССКАМ         + 03407         000014           РАССКАМ         + 03412         000016           РАССКАМ         + 03412         000017           РАССКАМ         + 03412         000016           РАССКАМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         00001 </td <td>  PROGRAM</td> <td>РАССКАМ         +034430         0000042           РАССКАМ         +034430         0000043           РАССКАМ         +03425         0000043           РАССКАМ         +03425         0000043           РАССКАМ         +03427         0000043           РАССКАМ         +03427         0000043           РАССКАМ         +03427         0000042           РАССКАМ         +03426         0000042           РАССКАМ         +03426         0000042           РАССКАМ         +03426         000006           РАССКАМ         +03415         000001           РАССКАМ         +03415         000001           РАССКАМ         +03415         000001           РАССКАМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03421         000001</td> <td>РАССКАМ         + 034430         0000042           РАССКАМ         + 034430         0000433           РАССКАМ         + 03425         0000131           РАССКАМ         + 03425         0000131           РАССКАМ         + 03427         0000131           РАССКАМ         + 03427         0000131           РАССКАМ         + 03427         0000131           РАССКАМ         + 03427         0000142           РАССКАМ         + 03437         0000142           РАССКАМ         + 03437         0000014           РАССКАМ         + 03443         0000016           РАССКАМ         + 03443         0000016           РАССКАМ         + 03443         0000016           СОННОМ         + 03443         0000016           СОННОМ         + 03443         0000016           СОННОМ         + 03443         0000016           СОННОМ         + 03443</td> <td>  PROGRAM</td> <td>  PROGRAM</td>	PROGRAM	РАССКАМ         +034430         0000042           РАССКАМ         +034430         0000043           РАССКАМ         +03425         0000043           РАССКАМ         +03425         0000043           РАССКАМ         +03427         0000043           РАССКАМ         +03427         0000043           РАССКАМ         +03427         0000042           РАССКАМ         +03426         0000042           РАССКАМ         +03426         0000042           РАССКАМ         +03426         000006           РАССКАМ         +03415         000001           РАССКАМ         +03415         000001           РАССКАМ         +03415         000001           РАССКАМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03415         000001           СОННОМ         +03421         000001	РАССКАМ         + 034430         0000042           РАССКАМ         + 034430         0000433           РАССКАМ         + 03425         0000131           РАССКАМ         + 03425         0000131           РАССКАМ         + 03427         0000131           РАССКАМ         + 03427         0000131           РАССКАМ         + 03427         0000131           РАССКАМ         + 03427         0000142           РАССКАМ         + 03437         0000142           РАССКАМ         + 03437         0000014           РАССКАМ         + 03443         0000016           РАССКАМ         + 03443         0000016           РАССКАМ         + 03443         0000016           СОННОМ         + 03443         0000016           СОННОМ         + 03443         0000016           СОННОМ         + 03443         0000016           СОННОМ         + 03443	PROGRAM	PROGRAM
PROGERM         + 031472         0000623           PROGERM         + 031472         0000623           PROGERM         + 032472         000063           PROGERM         + 032742         000063           PROGERM         + 032742         000013           PROGERM         + 033742         000013           PROGERM         + 033742         000015           PROGERM         + 033742         000015           PROGERM         + 033076         000015           PROGERM         + 033076         000015           PROGERM         + 033076         000015           PROGERM         + 033077         000015           PROGERM         + 033077         000015           PROGERM         + 033124         000015           PROGERM         + 033677         000015           PROGERM         + 033677         000015           PROGERM         + 034070         000001           PROGERM         + 034070         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         0000	PROGERM         + 031430         0000002           PROGERM         + 031472         0000043           PROGERM         + 032472         000013           PROGERM         + 032414         000013           PROGERM         + 032745         000013           PROGERM         + 032746         000013           PROGERM         + 033746         000015           PROGERM         + 033746         000015           PROGERM         + 03324         000015           PROGERM         + 03312         000015           PROGERM         + 03412         000015           PROGERM         + 03412         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03421         000001           COHHON         + 03421         000001	PROGERM         + 031430         0000002           PROGERM         + 031472         0000043           PROGERM         + 032472         0000133           PROGERM         + 032742         0000133           PROGERM         + 032749         0000113           PROGERM         + 032749         0000113           PROGERM         + 032749         0000113           PROGERM         + 033749         0000110           PROGERM         + 033749         0000110           PROGERM         + 033749         0000110           PROGERM         + 033749         0000110           PROGERM         + 03372         0000110           PROGERM         + 03316         0000110           PROGERM         + 033172         0000110           PROGERM         + 034132         0000011           PROGERM         + 034132         000001           PROGERM         + 034132         000001           PROGERM         + 034132         000001           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         0000001           COHHON         + 03426	РАОСЯКА         + 031472         000060           РАОСЯКА         + 031472         000060           РАОСЯКА         + 033472         0000613           РАОСЯКА         + 03375         000013           РАОСЯКА         + 03375         000013           РАОСЯКА         + 03374         000013           РАОСЯКА         + 03374         000013           РАОСЯКА         + 033076         000014           РАОСЯКА         + 033076         000011           РАОСЯКА         + 033076         000011           РАОСЯКА         + 03412         000001           РАОСЯКА         + 03412         000001           СОННОИ         + 03412         000001           СОННОИ         + 03412         000001           СОННОИ         + 03412         000001           СОННОИ         + 03421         000001 <td>РАОСВЕМ         + 031472         000060           РАОСВЕМ         + 031472         000060           РАОСВЕМ         + 032415         0000131           РАОСВЕМ         + 032745         0000131           РАОСВЕМ         + 032745         0000131           РАОСВЕМ         + 033746         0000131           РАОСВЕМ         + 033274         0000151           РАОСВЕМ         + 033274         0000151           РАОСВЕМ         + 033274         0000151           РАОСВЕМ         + 033274         0000151           РАОСВЕМ         + 033274         000011           РАОСВЕМ         + 033274         000011           РАОСВЕМ         + 033612         000011           РАОСВЕМ         + 033612         000011           РАОСВЕМ         + 033612         000011           РАОСВЕМ         + 033677         000001           РАОСВЕМ         + 034070         000001           РАОСВЕМ         + 034175         000001           СОННОМ         + 034156         000001           СОННОМ         + 034156         000001           СОННОМ         + 034156         000001           СОННОМ         + 034156</td> <td>PROGRAM         + 031430         0000062           PROGRAM         + 031472         0000633           PROGRAM         + 032427         0000133           PROGRAM         + 032742         0000133           PROGRAM         + 032742         0000133           PROGRAM         + 032749         0000113           PROGRAM         + 033740         0000115           PROGRAM         + 033740         0000115           PROGRAM         + 033740         0000110           PROGRAM         + 033740         0000110           PROGRAM         + 03316         0000110           PROGRAM         + 03316         0000110           PROGRAM         + 033172         0000110           PROGRAM         + 033172         0000011           PROGRAM         + 034132         0000011           PROGRAM         + 034132         0000011           PROGRAM         + 034132         000001           COHHON         + 034132         000001           COHHON         + 034132         000001           COHHON         + 034132         000001           COHON         + 034132         000001           COHON         + 034132</td>	РАОСВЕМ         + 031472         000060           РАОСВЕМ         + 031472         000060           РАОСВЕМ         + 032415         0000131           РАОСВЕМ         + 032745         0000131           РАОСВЕМ         + 032745         0000131           РАОСВЕМ         + 033746         0000131           РАОСВЕМ         + 033274         0000151           РАОСВЕМ         + 033274         0000151           РАОСВЕМ         + 033274         0000151           РАОСВЕМ         + 033274         0000151           РАОСВЕМ         + 033274         000011           РАОСВЕМ         + 033274         000011           РАОСВЕМ         + 033612         000011           РАОСВЕМ         + 033612         000011           РАОСВЕМ         + 033612         000011           РАОСВЕМ         + 033677         000001           РАОСВЕМ         + 034070         000001           РАОСВЕМ         + 034175         000001           СОННОМ         + 034156         000001           СОННОМ         + 034156         000001           СОННОМ         + 034156         000001           СОННОМ         + 034156	PROGRAM         + 031430         0000062           PROGRAM         + 031472         0000633           PROGRAM         + 032427         0000133           PROGRAM         + 032742         0000133           PROGRAM         + 032742         0000133           PROGRAM         + 032749         0000113           PROGRAM         + 033740         0000115           PROGRAM         + 033740         0000115           PROGRAM         + 033740         0000110           PROGRAM         + 033740         0000110           PROGRAM         + 03316         0000110           PROGRAM         + 03316         0000110           PROGRAM         + 033172         0000110           PROGRAM         + 033172         0000011           PROGRAM         + 034132         0000011           PROGRAM         + 034132         0000011           PROGRAM         + 034132         000001           COHHON         + 034132         000001           COHHON         + 034132         000001           COHHON         + 034132         000001           COHON         + 034132         000001           COHON         + 034132
PROGERA         + 031430         0000062           PROGERA         + 034472         0000633           PROGERAH         + 032422         0000133           PROGERAH         + 032414         0000133           PROGERAH         + 032414         0000133           PROGERAH         + 032740         0000131           PROGERAH         + 032745         0000131           PROGERAH         + 033746         0000142           PROGERAH         + 033746         0000142           PROGERAH         + 033746         0000142           PROGERAH         + 033746         0000142           PROGERAH         + 033746         000014           PROGERAH         + 03372         000014           PROGERAH         + 03372         000014           PROGERAH         + 033167         000016           PROGERAH         + 033677         0000016           PROGERAH         + 034172         0000016           PROGERAH         + 034172         0000016           PROGERAH         + 034176         000001           COHHON         + 03415         000001           COHHON         + 03416         000001           COHHON	PROGERA         + 031430         0000062           PROGERA         + 034472         0000640           PROGERAH         + 032414         0000133           PROGERAH         + 032425         0000063           PROGERAH         + 032446         000013           PROGERAH         + 032745         000013           PROGERAH         + 032746         000015           PROGERAH         + 032746         000015           PROGERAH         + 03374         000011           PROGERAH         + 03374         000011           PROGERAH         + 03374         000011           PROGERAH         + 03374         000011           PROGERAH         + 03361         000011           PROGERAH         + 03361         000011           PROGERAH         + 03413         000001           PROGERAH         + 03413         000001           PROGRAH         + 03413         000001           PROGRAH         + 03413         000001           PROGRAH         + 03413         000001           COHHON         + 03413         000001           COHHON         + 03413         000001           COHHON         + 03413         <	PROGRAM         + 031430         000062           PROGRAM         + 03472         0000610           PROGRAM         + 03235         0000613           PROGRAM         + 03235         0000613           PROGRAM         + 032375         000013           PROGRAM         + 032376         000015           PROGRAM         + 032745         0000113           PROGRAM         + 03374         0000113           PROGRAM         + 03374         0000114           PROGRAM         + 03374         0000114           PROGRAM         + 03374         0000114           PROGRAM         + 03374         0000114           PROGRAM         + 03316         0000114           PROGRAM         + 03316         0000116           PROGRAM         + 03316         0000116           PROGRAM         + 03316         0000016           PROGRAM         + 03413         0000016           PROGRAM         + 03413 <t< td=""><td>PROGRAM         + 031430         0000062           PROGRAM         + 034472         0000610           PROGRAM         + 032414         0000131           PROGRAM         + 032416         0000131           PROGRAM         + 032545         0000131           PROGRAM         + 032745         0000131           PROGRAM         + 032745         0000113           PROGRAM         + 032745         0000113           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 03372         0000110           PROGRAM         + 03372         0000017           PROGRAM         + 03362         0000011           PROGRAM         + 03362         000001           PROGRAM         + 03362         000001           PROGRAM         + 03362         000001           PROGRAM         + 03360         000001           PROGRAM         + 034132         000001           PROGRAM         + 034132         000001           PROGRAM         + 034132         000001           COHHON         + 03413         000001           COHHON         + 03416</td><td>PROGERA         + 031430         000060           PROGERA         + 034472         0000610           PROGERAH         + 032422         0000613           PROGERAH         + 032414         000013           PROGERAH         + 032414         000013           PROGERAH         + 032745         0000113           PROGERAH         + 033746         0000115           PROGERAH         + 033746         0000115           PROGERAH         + 033746         0000116           PROGERAH         + 033746         0000116           PROGERAH         + 033746         0000117           PROGERAH         + 033162         0000116           PROGERAH         + 033172         0000117           PROGERAH         + 033172         0000015           PROGERAH         + 034172         0000011           PROGERAH         + 034172         0000017           PROGERAH         + 034175         0000017           COHHON         + 034159         000001           COHHON         + 034159         000001           COHHON         + 034159         000001           COHHON         + 034129         000001           COHHON</td><td>PROGRAM         + 031430         0000062           PROGRAM         + 03472         0000610           PROGRAM         + 032414         0000133           PROGRAM         + 032425         00000613           PROGRAM         + 032545         0000133           PROGRAM         + 032745         0000113           PROGRAM         + 032745         0000113           PROGRAM         + 033746         0000110           PROGRAM         + 03374         0000110           PROGRAM         + 03374         0000110           PROGRAM         + 03316         0000110           PROGRAM         + 03316         0000110           PROGRAM         + 03316         000011           PROGRAM         + 03316         000011           PROGRAM         + 03316         000011           PROGRAM         + 03316         000011           PROGRAM         + 034132         000001           PROGRAM         + 034132         000001           PROGRAM         + 034132         000001           COHHON         + 03416         000001           COHHON         + 03413         000001           COHHON         + 03413</td></t<>	PROGRAM         + 031430         0000062           PROGRAM         + 034472         0000610           PROGRAM         + 032414         0000131           PROGRAM         + 032416         0000131           PROGRAM         + 032545         0000131           PROGRAM         + 032745         0000131           PROGRAM         + 032745         0000113           PROGRAM         + 032745         0000113           PROGRAM         + 033745         0000110           PROGRAM         + 033745         0000110           PROGRAM         + 03372         0000110           PROGRAM         + 03372         0000017           PROGRAM         + 03362         0000011           PROGRAM         + 03362         000001           PROGRAM         + 03362         000001           PROGRAM         + 03362         000001           PROGRAM         + 03360         000001           PROGRAM         + 034132         000001           PROGRAM         + 034132         000001           PROGRAM         + 034132         000001           COHHON         + 03413         000001           COHHON         + 03416	PROGERA         + 031430         000060           PROGERA         + 034472         0000610           PROGERAH         + 032422         0000613           PROGERAH         + 032414         000013           PROGERAH         + 032414         000013           PROGERAH         + 032745         0000113           PROGERAH         + 033746         0000115           PROGERAH         + 033746         0000115           PROGERAH         + 033746         0000116           PROGERAH         + 033746         0000116           PROGERAH         + 033746         0000117           PROGERAH         + 033162         0000116           PROGERAH         + 033172         0000117           PROGERAH         + 033172         0000015           PROGERAH         + 034172         0000011           PROGERAH         + 034172         0000017           PROGERAH         + 034175         0000017           COHHON         + 034159         000001           COHHON         + 034159         000001           COHHON         + 034159         000001           COHHON         + 034129         000001           COHHON	PROGRAM         + 031430         0000062           PROGRAM         + 03472         0000610           PROGRAM         + 032414         0000133           PROGRAM         + 032425         00000613           PROGRAM         + 032545         0000133           PROGRAM         + 032745         0000113           PROGRAM         + 032745         0000113           PROGRAM         + 033746         0000110           PROGRAM         + 03374         0000110           PROGRAM         + 03374         0000110           PROGRAM         + 03316         0000110           PROGRAM         + 03316         0000110           PROGRAM         + 03316         000011           PROGRAM         + 03316         000011           PROGRAM         + 03316         000011           PROGRAM         + 03316         000011           PROGRAM         + 034132         000001           PROGRAM         + 034132         000001           PROGRAM         + 034132         000001           COHHON         + 03416         000001           COHHON         + 03413         000001           COHHON         + 03413
PAGGRAN         +031430         0000062           PAGGRAN         +034472         00006103           PAGGRAN         +032472         0000613           PAGGRAN         +032545         0000133           PAGGRAN         +032745         000013           PAGGRAN         +032746         000015           PAGGRAN         +032745         000015           PAGGRAN         +032745         000011           PAGGRAN         +032745         000011           PAGGRAN         +032745         000011           PAGGRAN         +032745         000011           PAGGRAN         +03316         000011           PAGGRAN         +03317         000011           PAGGRAN         +03317         000011           PAGGRAN         +03317         000001           PAGGRAN         +03317         000001           PAGGRAN         +03317         000001           PAGGRAN         +03413         000001           PAGGRAN         +03413         000001           COHHON         +03413         000001           COHHON         +03413         000001           COHHON         +03413         000001 <tr< td=""><td>PAGGRAM         +031472         0000060           PAGGRAM         +034472         0000613           PAGGRAM         +032472         0000613           PAGGRAM         +032545         000013           PAGGRAM         +032546         000013           PAGGRAM         +032546         000013           PAGGRAM         +032745         000013           PAGGRAM         +032746         000015           PAGGRAM         +032746         000011           PAGGRAM         +032745         000011           PAGGRAM         +032745         000011           PAGGRAM         +032745         000011           PAGGRAM         +032745         000011           PAGGRAM         +03272         000011           PAGGRAM         +03267         000011           PAGGRAM         +03316         000011           PAGGRAM         +03317         000001           PAGGRAM         +03317         000001           PAGGRAM         +03413         000001           PAGGRAM         +03413         000001           COHHON         +03413         000001           COHHON         +03413         000001      <t< td=""><td>PROGRAM         +031472         0000040           PROGRAM         +034472         00006133           PROGRAM         +032845         0000063           PROGRAM         +032845         00000131           PROGRAM         +032845         00000131           PROGRAM         +032846         00000131           PROGRAM         +032745         00000131           PROGRAM         +032745         0000014           PROGRAM         +033745         0000014           PROGRAM         +033745         0000014           PROGRAM         +033745         0000014           PROGRAM         +03372         0000016           PROGRAM         +033612         0000016           PROGRAM         +034132         0000016           PROGRAM         +034132         0000016           PROGRAM         +034132         0000016           PROGRAM         +034132         0000016           PROGRAM         +03416         0000016           PROGRAM         +03416         0000016           PROGRAM         +03416         0000016           PROGRAM         +03416         0000011           COHHON         +03416         0</td><td>PROGRAM         +031472         0000040           PROGRAM         +034472         0000613           PROGRAM         +032472         0000613           PROGRAM         +03245         0000131           PROGRAM         +03246         0000131           PROGRAM         +03246         0000131           PROGRAM         +032745         0000113           PROGRAM         +032745         0000110           PROGRAM         +033745         0000110           PROGRAM         +033076         0000110           PROGRAM         +033076         0000110           PROGRAM         +033077         0000110           PROGRAM         +033077         0000017           PROGRAM         +033077         0000017           PROGRAM         +034132         0000017           PROGRAM         +034132         0000017           PROGRAM         +034142         0000017           PROGRAM         +034142         0000017           PROGRAM         +034141         0000011           COHHON         +03415         0000017           COHHON         +03416         0000011           COHHON         +03417         0000011&lt;</td><td>PAGGRAM         +031472         0000060           PAGGRAM         +034472         0000613           PAGGRAM         +032472         0000613           PAGGRAM         +032545         000013           PAGGRAM         +032745         000013           PAGGRAM         +032746         000013           PAGGRAM         +032749         000013           PAGGRAM         +032749         000015           PAGGRAM         +032749         000015           PAGGRAM         +032749         000011           PAGGRAM         +032749         000011           PAGGRAM         +032749         000011           PAGGRAM         +03372         000011           PAGGRAM         +03372         000011           PAGGRAM         +03412         000001           COHHON         +03415         000001           COHHON         +03415         000001      <tr< td=""><td>PROGRAM         +031472         0000062           PROGRAM         +034472         0000633           PROGRAM         +032472         0000633           PROGRAM         +032495         0000131           PROGRAM         +032495         0000131           PROGRAM         +032745         0000131           PROGRAM         +032745         0000113           PROGRAM         +032745         0000113           PROGRAM         +033745         0000113           PROGRAM         +033745         0000114           PROGRAM         +033745         0000117           PROGRAM         +033772         0000015           PROGRAM         +033677         0000015           PROGRAM         +033677         0000015           PROGRAM         +034132         0000016           COHHON         +034132</td></tr<></td></t<></td></tr<>	PAGGRAM         +031472         0000060           PAGGRAM         +034472         0000613           PAGGRAM         +032472         0000613           PAGGRAM         +032545         000013           PAGGRAM         +032546         000013           PAGGRAM         +032546         000013           PAGGRAM         +032745         000013           PAGGRAM         +032746         000015           PAGGRAM         +032746         000011           PAGGRAM         +032745         000011           PAGGRAM         +032745         000011           PAGGRAM         +032745         000011           PAGGRAM         +032745         000011           PAGGRAM         +03272         000011           PAGGRAM         +03267         000011           PAGGRAM         +03316         000011           PAGGRAM         +03317         000001           PAGGRAM         +03317         000001           PAGGRAM         +03413         000001           PAGGRAM         +03413         000001           COHHON         +03413         000001           COHHON         +03413         000001 <t< td=""><td>PROGRAM         +031472         0000040           PROGRAM         +034472         00006133           PROGRAM         +032845         0000063           PROGRAM         +032845         00000131           PROGRAM         +032845         00000131           PROGRAM         +032846         00000131           PROGRAM         +032745         00000131           PROGRAM         +032745         0000014           PROGRAM         +033745         0000014           PROGRAM         +033745         0000014           PROGRAM         +033745         0000014           PROGRAM         +03372         0000016           PROGRAM         +033612         0000016           PROGRAM         +034132         0000016           PROGRAM         +034132         0000016           PROGRAM         +034132         0000016           PROGRAM         +034132         0000016           PROGRAM         +03416         0000016           PROGRAM         +03416         0000016           PROGRAM         +03416         0000016           PROGRAM         +03416         0000011           COHHON         +03416         0</td><td>PROGRAM         +031472         0000040           PROGRAM         +034472         0000613           PROGRAM         +032472         0000613           PROGRAM         +03245         0000131           PROGRAM         +03246         0000131           PROGRAM         +03246         0000131           PROGRAM         +032745         0000113           PROGRAM         +032745         0000110           PROGRAM         +033745         0000110           PROGRAM         +033076         0000110           PROGRAM         +033076         0000110           PROGRAM         +033077         0000110           PROGRAM         +033077         0000017           PROGRAM         +033077         0000017           PROGRAM         +034132         0000017           PROGRAM         +034132         0000017           PROGRAM         +034142         0000017           PROGRAM         +034142         0000017           PROGRAM         +034141         0000011           COHHON         +03415         0000017           COHHON         +03416         0000011           COHHON         +03417         0000011&lt;</td><td>PAGGRAM         +031472         0000060           PAGGRAM         +034472         0000613           PAGGRAM         +032472         0000613           PAGGRAM         +032545         000013           PAGGRAM         +032745         000013           PAGGRAM         +032746         000013           PAGGRAM         +032749         000013           PAGGRAM         +032749         000015           PAGGRAM         +032749         000015           PAGGRAM         +032749         000011           PAGGRAM         +032749         000011           PAGGRAM         +032749         000011           PAGGRAM         +03372         000011           PAGGRAM         +03372         000011           PAGGRAM         +03412         000001           COHHON         +03415         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PROGRAM         +034472         0000613           PROGRAM         +032472         0000613           PROGRAM         +03245         0000131           PROGRAM         +03246         0000131           PROGRAM         +03246         0000131           PROGRAM         +032745         0000113           PROGRAM         +032745         0000110           PROGRAM         +033745         0000110           PROGRAM         +033076         0000110           PROGRAM         +033076         0000110           PROGRAM         +033077         0000110           PROGRAM         +033077         0000017           PROGRAM         +033077         0000017           PROGRAM         +034132         0000017           PROGRAM         +034132         0000017           PROGRAM         +034142         0000017           PROGRAM         +034142         0000017           PROGRAM         +034141         0000011           COHHON         +03415         0000017           COHHON         +03416         0000011           COHHON         +03417         0000011<	PAGGRAM         +031472         0000060           PAGGRAM         +034472         0000613           PAGGRAM         +032472         0000613           PAGGRAM         +032545         000013           PAGGRAM         +032745         000013           PAGGRAM         +032746         000013           PAGGRAM         +032749         000013           PAGGRAM         +032749         000015           PAGGRAM         +032749         000015           PAGGRAM         +032749         000011           PAGGRAM         +032749         000011           PAGGRAM         +032749         000011           PAGGRAM         +03372         000011           PAGGRAM         +03372         000011           PAGGRAM         +03412         000001           COHHON         +03415         000001           COHHON         +03415         000001 <tr< td=""><td>PROGRAM         +031472         0000062           PROGRAM         +034472         0000633           PROGRAM         +032472         0000633           PROGRAM         +032495         0000131           PROGRAM         +032495         0000131           PROGRAM         +032745         0000131           PROGRAM         +032745         0000113           PROGRAM         +032745         0000113           PROGRAM         +033745         0000113           PROGRAM         +033745         0000114           PROGRAM         +033745         0000117           PROGRAM         +033772         0000015           PROGRAM         +033677         0000015           PROGRAM         +033677         0000015           PROGRAM         +034132         0000016           COHHON         +034132</td></tr<>	PROGRAM         +031472         0000062           PROGRAM         +034472         0000633           PROGRAM         +032472         0000633           PROGRAM         +032495         0000131           PROGRAM         +032495         0000131           PROGRAM         +032745         0000131           PROGRAM         +032745         0000113           PROGRAM         +032745         0000113           PROGRAM         +033745         0000113           PROGRAM         +033745         0000114           PROGRAM         +033745         0000117           PROGRAM         +033772         0000015           PROGRAM         +033677         0000015           PROGRAM         +033677         0000015           PROGRAM         +034132         0000016           COHHON         +034132
PROGRAM         +031472         0000042           PROGRAM         +031472         0000613           PROGRAM         +032545         000063           PROGRAM         +032546         0000131           PROGRAM         +032546         0000131           PROGRAM         +032745         0000131           PROGRAM         +032746         0000115           PROGRAM         +032745         0000115           PROGRAM         +032745         000011           PROGRAM         +032745         000011           PROGRAM         +033274         000011           PROGRAM         +03372         000011           PROGRAM         +033274         000011           PROGRAM         +033274         000011           PROGRAM         +033274         000001           PROGRAM         +033274         000001           PROGRAM         +033274         000001           PROGRAM         +033274         000001           PROGRAM         +033612         000001           PROGRAM         +034132         000001           COHHON         +034132         000001           COHHON         +034132         000001	PROGRAM         +031472         0000042           PROGRAM         +031472         0000613           PROGRAM         +032816         0000131           PROGRAM         +032816         0000131           PROGRAM         +032745         0000131           PROGRAM         +032746         0000113           PROGRAM         +032746         0000113           PROGRAM         +032746         0000110           PROGRAM         +033746         0000110           PROGRAM         +03374         0000011           PROGRAM         +03374         0000011           PROGRAM         +03374         000001           PROGRAM         +03372         000001           PROGRAM         +03372         000001           PROGRAM         +03314         000001           PROGRAM         +03317         000001           PROGRAM         +03317         000001           PROGRAM         +03317         000001           PROGRAM         +03413         000001           PROGRAM         +03413         000001           PROGRAM         +03413         000001           COHHON         +03413         000001	PROGRAM         +031470         0000042           PROGRAM         +03472         000067           PROGRAM         +03255         0000133           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032745         0000131           PROGRAM         +032745         00001131           PROGRAM         +032745         0000112           PROGRAM         +033745         0000114           PROGRAM         +033745         0000114           PROGRAM         +033745         0000114           PROGRAM         +03372         0000114           PROGRAM         +03372         0000114           PROGRAM         +03367         0000114           PROGRAM         +034132         0000075           PROGRAM         +034132         0000077           COHHON         +034155         00000	PROGRAM         +031472         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 COMHON         +03424         000001     <	PROGRAM         +031472         0000040           PROGRAM         +031472         0000613           PROGRAM         +032472         0000613           PROGRAM         +032472         0000613           PROGRAM         +032492         000013           PROGRAM         +032492         000013           PROGRAM         +032492         000013           PROGRAM         +032749         000014           PROGRAM         +032749         000014           PROGRAM         +03374         000014           PROGRAM         +03314         000014           PROGRAM         +03316         000014           PROGRAM         +03317         000014           PROGRAM         +03413         000001           PROGRAM         +03415         000001           PROGRAM         +03415         000001           COHHON         +03415         000001           COHHON         +03415         000001	PROGRAM         +031472         0000042           PROGRAM         +03472         00006131           PROGRAM         +03255         0000063           PROGRAM         +032545         00000131           PROGRAM         +032745         00000131           PROGRAM         +032745         00000131           PROGRAM         +032745         00000142           PROGRAM         +033745         00000142           PROGRAM         +033745         00000142           PROGRAM         +033745         00000142           PROGRAM         +033745         00000142           PROGRAM         +033612         00000167           PROGRAM         +033612         00000167           PROGRAM         +034132         00000167           PROGRAM         +034132         00000167           PROGRAM         +034132         00000167           PROGRAM         +034132         0000017           PROGRAM         +034132         0000017           PROGRAM         +034132         0000017           COHHON         +034132         0000017           COHHON         +034132         0000001           COHHON         +034213
PROGRAM         +03443         0000042           PROGRAM         +03447         000063           PROGRAM         +03472         000063           PROGRAM         +03245         0000131           PROGRAM         +03246         0000131           PROGRAM         +032745         0000113           PROGRAM         +032745         0000115           PROGRAM         +033745         0000115           PROGRAM         +033745         0000117           PROGRAM         +033745         0000110           PROGRAM         +033745         0000110           PROGRAM         +033745         000011           PROGRAM         +03372         000001           PROGRAM         +03372         000001           PROGRAM         +034132         000001           COHHON         +034132         000001           COHHON         +034132         000001           COHHON         +034132         000001	PROGRAM         +03442         0000042           PROGRAM         +03447         0000633           PROGRAM         +03245         0000063           PROGRAM         +03245         0000063           PROGRAM         +03246         0000131           PROGRAM         +032745         0000113           PROGRAM         +032745         0000013           PROGRAM         +032745         0000011           PROGRAM         +033745         0000011           PROGRAM         +033745         0000011           PROGRAM         +033745         0000011           PROGRAM         +03372         000001           PROGRAM         +033612         000001           PROGRAM         +03361         000001           PROGRAM         +03413         000001           PROGRAM         +03413         000001           PROGRAM         +03413         000001           COHHON         +03413         000001	PROGRAM         +03472         0000642           PROGRAM         +03472         000067           PROGRAM         +03255         0000133           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032745         0000167           PROGRAM         +032745         0000167           PROGRAM         +032745         00001667           PROGRAM         +032745         00001667           PROGRAM         +032076         0000111           PROGRAM         +033072         0000167           PROGRAM         +033077         0000114           PROGRAM         +034132         0000114           PROGRAM         +034132         0000017           COHHON         +034132         0000017           COHHON         +034132         0000007           COHHON         +034132         0000	РАССКАН         +03472         0000642           РАССКАН         +03472         00006131           РАССКАН         +032545         00006131           РАССКАН         +032545         0000131           РАССКАН         +032745         0000131           РАССКАН         +032745         0000164           РАССКАН         +032745         0000164           РАССКАН         +032745         0000164           РАССКАН         +032745         0000164           РАССКАН         +032745         000011           РАССКАН         +033076         000011           РАССКАН         +034070         000011           РАССКАН         +034070         000011           РАССКАН         +034132         0000017           РАССКАН         +034132         0000017           РАССКАН         +034157         000001           СОННОИ         +034159         000001	PROGRAM	PROGRAM         +03472         0000042           PROGRAM         +03472         000067           PROGRAM         +03472         0000633           PROGRAM         +032545         0000131           PROGRAM         +032545         0000131           PROGRAM         +032745         0000131           PROGRAM         +032745         0000142           PROGRAM         +032745         0000162           PROGRAM         +033745         0000162           PROGRAM         +033745         0000114           PROGRAM         +033046         00001162           PROGRAM         +033072         0000167           PROGRAM         +033072         0000167           PROGRAM         +034132         0000017           COHHON         +034132         000
РЯФСККЯ         + 03472         000062           РЯФСККЯ         + 03472         000063           РАФСКАН         + 032545         00006131           РАФСКАН         + 032545         0000131           РАФСКАН         + 032745         0000131           РАФСКАН         + 032745         0000113           РАФСКАН         + 032745         0000113           РАФСКАН         + 032745         0000110           РАФСКАН         + 033745         0000110           РАФСКАН         + 033745         0000110           РАФСКАН         + 033745         0000110           РАФСКАН         + 03372         0000110           РАФСКАН         + 03372         000011           РАФСКАН         + 03372         000011           РАФСКАН         + 034132         000011           РАФСКАН         + 034132         000001           СОННОИ         + 034132         000001           СОННОИ         + 034132	PROGRAM         +03472         000062           PROGRAM         +03472         000062           PROGRAM         +03255         00006131           PROGRAM         +032545         0000131           PROGRAM         +032745         0000131           PROGRAM         +032745         0000131           PROGRAM         +032745         0000113           PROGRAM         +033745         0000113           PROGRAM         +033745         0000114           PROGRAM         +033745         0000114           PROGRAM         +033745         0000114           PROGRAM         +03362         0000114           PROGRAM         +03362         0000114           PROGRAM         +03362         0000116           PROGRAM         +03362         0000116           PROGRAM         +03361         0000016           PROGRAM         +03361         0000016           PROGRAM         +03361         0000016           PROGRAM         +03413         0000016           PROGRAM         +03413         0000016           PROGRAM         +03413         0000016           PROGRAM         +03413         0000016	РЯФСЕКА         + 03472         000062           РАССКАН         + 03472         0000613           РАССКАН         + 032545         0000613           РАССКАН         + 032545         000013           РАССКАН         + 032745         000013           РАССКАН         + 032745         0000167           РАССКАН         + 032745         0000167           РАССКАН         + 032745         0000167           РАССКАН         + 032745         0000167           РАССКАН         + 033076         0000110           РАССКАН         + 033076         0000110           РАССКАН         + 033077         0000110           РАССКАН         + 033077         0000110           РАССКАН         + 034132         000010           СОННОИ         + 034132         000010           СОННОИ         + 034132         000010           СОННОИ         + 034132         0000010           СОННОИ         + 034132	РЯФСККЯ         + 03472         000062           РЯФСККЯ         + 03472         000063           РАССКАН         + 032545         00006131           РЯФСКАН         + 032545         0000131           РРОСКАН         + 03274         0000131           РРОСКАН         + 03274         0000167           РРОСКАН         + 03274         0000167           РРОСКАН         + 03274         0000167           РРОСКАН         + 03274         0000167           РРОСКАН         + 03274         000011           РРОСКАН         + 03274         000011           РРОСКАН         + 03372         000011           РРОСКАН         + 03412         000011           РРОСКАН         + 03412         000007           РРОСКАН         + 03412         000001           РРОСКАН         + 03412         000001           РРОСКАН         + 03412         000001           РРОСКАН         + 03412         000001           СОННОИ         + 03412         000001           СОННОИ         + 03412         000001           СОННОИ         + 03412         000001           СОННОИ         + 03424         000001	PROGRAM         +03472         0000040           PROGRAM         +03472         0000040           PROGRAM         +03255         0000040           PROGRAM         +032545         00000131           PROGRAM         +032745         00000131           PROGRAM         +032745         00000131           PROGRAM         +032745         00000110           PROGRAM         +033745         00000110           PROGRAM         +033745         00000110           PROGRAM         +033745         00000110           PROGRAM         +033274         00000110           PROGRAM         +033274         0000011           PROGRAM         +033274         0000011           PROGRAM         +033274         000001           PROGRAM         +033274         000001           PROGRAM         +033274         000001           PROGRAM         +033274         000001           PROGRAM         +033272         000001           PROGRAM         +034132         000001           PROGRAM         +034132         000001           COHHON         +034135         0000001           COHHON         +034135         000	PROGRAM         +03472         000062           PROGRAM         +03472         000063           PROGRAM         +03472         000063           PROGRAM         +032545         0000131           PROGRAM         +032745         0000131           PROGRAM         +032745         0000162           PROGRAM         +032745         0000164           PROGRAM         +032745         0000164           PROGRAM         +032745         0000164           PROGRAM         +032745         0000114           PROGRAM         +033076         0000114           PROGRAM         +033077         0000114           PROGRAM         +034070         0000114           PROGRAM         +034132         0000017           COHHON         +034132         0000017           COHHON         +034132         0000017           COHHON         +034132         0000017<
РЯОСКАН         + 03472         0000002           РЯОСКАН         + 03472         0000003           РЯОСКАН         + 032545         00000131           РЯОСКАН         + 032545         00000131           РЯОСКАН         + 032545         00000131           РЯОСКАН         + 032545         00000131           РЯОСКАН         + 032745         00000131           РЯОСКАН         + 033745         0000014           РЯОСКАН         + 033745         0000014           РЯОСКАН         + 033745         0000014           РЯОСКАН         + 033745         0000014           РЯОСКАН         + 03372         0000014           РЯОСКАН         + 03377         0000016           РЯОСКАН         + 03367         0000016           РЯОСКАН         + 03367         0000016           РЯОСКАН         + 03367         0000016           РЯОСКАН         + 03367         0000016           РЯОСКАН         + 034132         0000016           РРОСКАН         + 034132         0000016           СОННОИ         + 034132         0000016           СОННОИ         + 034132         0000016           СОННОИ         + 034135	РЯОСКАН         + 03472         000000           РЯОСКАН         + 03472         000000           РЯОСКАН         + 032545         000000           РЯОСКАН         + 032545         000000           РЯОСКАН         + 032745         0000013           РЯОСКАН         + 032745         000016           РЯОСКАН         + 03374         000016           РЯОСКАН         + 03374         000016           РЯОСКАН         + 03367         000016           РЯОСКАН         + 03367         000016           РЯОСКАН         + 03413         000016           РЯОСКАН         + 03413         000016           РЯОСКАН         + 03413         000001           РЯОСКАН         + 03413         000001           РЯОСКАН         + 03413         000001           РЯОСКАН         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03413         000001	РЯОСКАН         + 03442         0000062           РЯОСКАН         + 03442         0000062           РЯОСКАН         + 03442         0000062           РЯОСКАН         + 03245         0000062           РЯОСКАН         + 03245         0000062           РЯОСКАН         + 03274         0000062           РЯОСКАН         + 03274         0000064           РЯОСКАН         + 03274         0000064           РЯОСКАН         + 03274         0000064           РЯОСКАН         + 03274         0000064           РЯОСКАН         + 033076         0000011           РЯОСКАН         + 033076         0000014           РЯОСКАН         + 033077         0000014           РЯОСКАН         + 033127         0000017           РЯОСКАН         + 034132         0000017           РЯОСКАН         + 034132         0000017           РЯОСКАН         + 034132         0000017           РЯОСКАН         + 034132         0000017           СОННОИ         + 034154         0000011           СОННОИ         + 034154         0000011           СОННОИ         + 034154         0000001           СОННОИ         + 034155	РЯОСКАН         + 03472         000060           РЯОСКАН         + 03472         00006131           РЯОСКАН         + 032545         0000131           РЯОСКАН         + 032545         0000131           РЯОСКАН         + 032545         0000131           РРОСКАН         + 032745         0000131           РРОСКАН         + 032745         0000131           РРОСКАН         + 032745         0000167           РРОСКАН         + 033745         0000167           РРОСКАН         + 033745         000011           РРОСКАН         + 03377         0000167           РРОСКАН         + 03377         0000167           РРОСКАН         + 03412         000011           РРОСКАН         + 03412         0000167           СОННОИ         + 03412         0000167           СОННОИ         + 03412         0000167           СОННОИ         + 03412         0000167           СОННОИ         + 03412	PROGRAM	РКОСКАН         + 03472         0000002           РКОСКАН         + 03472         0000002           РКОСКАН         + 032545         00000131           РКОСКАН         + 032545         00000131           РКОСКАН         + 032545         00000131           РКОСКАН         + 032745         00000131           РКОСКАН         + 032745         00000142           РКОСКАН         + 032745         00000142           РКОСКАН         + 033076         00000142           РКОСКАН         + 033076         00000142           РКОСКАН         + 033076         0000014           РКОСКАН         + 033077         0000014           РКОСКАН         + 033077         0000014           РКОСКАН         + 034132         0000017           СОННОИ         + 034132         0000017           СОННОИ         + 034132         0000017           СОННОИ         + 034132         0000007           СОННОИ
PROGRAM	PROGRAM	РАЗСКАН         + 03442         000062           РАЗСКАН         + 03442         0000623           РАЗСКАН         + 03245         00006131           РАЗСКАН         + 03245         0000131           РАЗСКАН         + 03245         0000131           РАЗСКАН         + 03245         0000131           РАЗСКАН         + 03274         0000131           РАЗСКАН         + 03274         0000142           РАЗСКАН         + 03374         0000167           РАЗСКАН         + 03413         0000167           РАЗСКАН         + 03413         0000167           РАЗСКАН         + 03413         0000167           РАЗСКАН         + 03413         0000167           СОННОИ         + 03415         0000167           СОННОИ         + 03416         0000011           СОННОИ         + 03415         0	PROGRAM	PROGRAM	PROGRAM
PROGRAM	PROGRAM	РАССКАН         13442         000000           РАССКАН         13472         000000           РАССКАН         13472         000000           РАССКАН         133475         0000013           РАССКАН         133575         0000013           РАССКАН         13374         0000013           РАССКАН         13374         0000013           РАССКАН         13374         0000064           РАССКАН         13374         0000067           РАССКАН         103412         0000067           РАССКАН         103412         0000067           РАССКАН         103412         0000067           РАССКАН         103412         0000067           СОННОИ         103412         0000067           СОННОИ         103412         0000067	PROGRAM	PROGRAM	PROGRAM
PROGRAM	PROGRAM	PROGRAM	PROGRAM	PROGRAM	PROGRAM
PROGRAM	PROGRAM	PROGRAM	PROGRAM	PROGRAM	PROGRAM
РАЗСБАВИ         133421         000006           РАЗСБАВИ         +034421         000006           РАЗСБАВИ         +034422         000006           РАЗСБАВИ         +03422         000006           РАЗСБАВИ         +03422         00000131           РАЗСБАВИ         +03422         00000131           РАЗСБАВИ         +03427         00000131           РАЗСБАВИ         +03427         00000131           РАЗСБАВИ         +03427         0000014           РАЗСБАВИ         +03374         0000014           РАЗСБАВИ         +03316         0000016           РАЗСБАВИ         +03316         0000016           РАЗСБАВИ         +03316         0000017           РАЗСБАВИ         +03413         0000017           СОННОМ         +03415         0000017           СОННОМ         +03415         0000017           СОННОМ         +03415         0000011           СОННОМ         +03415         0000	PROGRAM	РАССКАМ + 034421 0000000 РАССКАМ + 034472 0000000 РАССКАМ + 034472 00000033 РАССКАМ + 034572 00000131 РАССКАМ + 035545 0000131 РАССКАМ + 035745 0000131 РАССКАМ + 035745 0000151 РАССКАМ + 035745 0000151 РАССКАМ + 03374 0000110 РАССКАМ + 03374 0000110 РАССКАМ + 03374 0000110 РАССКАМ + 03377 00000110 РАССКАМ + 03412 00000110 СОМНОМ + 03415 00000110 СОМНОМ + 03424 00000110 СОМНОМ + 03424 00000110 СОМНОМ + 03424 00000110 СОМНОМ + 03424 00000110 СОМНОМ + 03426 00000110 СОМНОМ + 03450 0000110 СОМНОМ + 03551 0000110 СОМНОМ + 03551 00001110 СОМНОМ + 03565 00001110 СОМНОМ + 03565 00001110	PROGRAM	РАССКАМ + 034421 00000623 РАССКАМ + 03442 00000623 РАССКАМ + 03442 00000131 РАССКАМ + 03545 00000131 РАССКАМ + 03545 00000131 РАССКАМ + 035745 00000131 РАССКАМ + 035745 00000131 РАССКАМ + 035745 00000140 РАССКАМ + 03577 00000140 РАССКАМ + 03577 00000140 РАССКАМ + 03577 00000140 РАССКАМ + 03577 00000140 РАССКАМ + 034155 00000140 СОМНОМ + 034155 00000140 СОМНОМ + 034159 0000010 СОМНОМ + 034159 0000010 СОМНОМ + 034215 0000010 СОМНОМ + 034215 0000010 СОМНОМ + 034215 0000010 СОМНОМ + 034215 0000010 СОМНОМ + 034210 0000010 СОМНОМ + 034510 0000010 СОМНОМ + 034510 0000010 СОМНОМ + 035511 0000010 СОМНОМ + 035551 0000011 СОМНОМ + 035551 0000011 СОМНОМ + 035555 0000011	РАССКАМ + 034421 0000000 000000000000000000000000000
PROGRAM + 034421 0000067   PROGRAM + 034421 0000067   PROGRAM + 034245 0000131   PROGRAM + 034245 0000131   PROGRAM + 032545 0000131   PROGRAM + 032545 0000131   PROGRAM + 032574 0000131   PROGRAM + 033274 0000131   PROGRAM + 033274 00001101   PROGRAM + 033274 0000017   COMHON + 03412 0000017   COMHON + 03412 0000017   COMHON + 03426 0000117   COMHON + 03451 0000017   COMHON + 03451 0000017   COMHON + 03451 0000017   COMHON + 03456 0000111   COMHON + 03450 0000117   COMHON + 03565 0000111	PROGRAM + 034421 0000067	PROGRAM + 034421 0000067   PROGRAM + 03425 0000067   PROGRAM + 03425 00000131   PROGRAM + 035245 0000131   PROGRAM + 035245 0000131   PROGRAM + 035245 0000167   PROGRAM + 035245 0000167   PROGRAM + 0332745 0000167   PROGRAM + 0332745 0000167   PROGRAM + 033274 0000017   PROGRAM + 033277 0000017   PROGRAM + 033277 0000017   PROGRAM + 033277 0000017   PROGRAM + 033274 0000017   COMHON + 034217 0000017   COMHON + 034217 0000017   COMHON + 034217 0000017   COMHON + 034214 0000017   COMHON + 034217 0000017   COMHON + 034214 0000017   COMHON + 034214 0000017   COMHON + 034214 0000017   COMHON + 034214 0000017   COMHON + 034217 0000017   COMHON + 034250 0000110   COMHON + 034250 0000111   COMHON + 034250 0000111   COMHON + 034250 0000111   COMHON + 034250 0000111	PROGRAM + 034421 0000067   PROGRAM + 034421 0000067   PROGRAM + 034255 0000067   PROGRAM + 034245 0000131   PROGRAM + 034245 0000131   PROGRAM + 034245 0000167   PROGRAM + 0342745 0000017   PROGRAM + 034274 000017   PROGRAM + 034274 0000017   PROGRAM + 034274 0000017   PROGRAM + 034274 0000017   PROGRAM + 034274 0000017   PROGRAM + 034277 0000017   PROGRAM + 034277 0000017   PROGRAM + 034277 0000017   PROGRAM + 034275 0000017   COMMON + 034175 0000017   COMMON + 03426 0000017   COMMON + 03426 0000017   COMMON + 03427 0000017   COMMON + 03456 0000017	PROGRAM + 034421 0000067	PROGRAM + 034421 0000067   PROGRAM + 034421 0000067   PROGRAM + 03425 0000067   PROGRAM + 03545 0000131   PROGRAM + 035545 0000131   PROGRAM + 035745 0000151   PROGRAM + 035745 0000167   PROGRAM + 033746 0000167   PROGRAM + 03375 0000065   PROGRAM + 03375 0000167   PROGRAM + 03375 0000167   PROGRAM + 03375 0000167   PROGRAM + 03375 00000167   PROGRAM + 03376 0000167   PROGRAM + 03377 00000167   PROGRAM + 03477 00000167   COMHON + 03415 0000017   COMHON + 03415 0000017   COMHON + 03415 0000017   COMHON + 03426 0000017   COMHON + 03421 0000017   COMHON + 03425 0000017   COMHON + 03426 0000017   COMHON + 03426 0000017   COMHON + 03426 0000017   COMHON + 03426 0000017   COMHON + 03456 0000017   COMHON + 03565 000011
РАССКАМ         + 031421         0000007           РАССКАМ         + 034430         00000131           РАССКАМ         + 034225         00000131           РАССКАМ         + 034225         00000131           РАССКАМ         + 034225         00000131           РАССКАМ         + 034245         0000131           РАССКАМ         + 034245         0000131           РАССКАМ         + 034245         0000131           РАССКАМ         + 034245         0000142           РАССКАМ         + 034076         0000142           РАССКАМ         + 034076         0000142           РАССКАМ         + 034076         0000142           РАССКАМ         + 034162         000011           РАССКАМ         + 034127         000011           РАССКАМ         + 034132         000011           РАССКАМ         + 034132         000011           РАССКАМ         + 034132         000011           РАССКАМ         + 034132         000011           СОННОМ         + 03413         000011           СОННОМ         + 03413         000011           СОННОМ         + 03413         000011           СОННОМ         + 03413	PROGRAM         + 031421         0000007           PROGRAM         + 031421         00000233           PROGRAM         + 03422         00000233           PROGRAM         + 03422         00000131           PROGRAM         + 03424         0000131           PROGRAM         + 03427         0000131           PROGRAM         + 03427         0000131           PROGRAM         + 03407         000014           PROGRAM         + 03407         000015           PROGRAM         + 03412         000016           PROGRAM         + 03412         000016           PROGRAM         + 03412         000016           PROGRAM         + 03412         000016           PROGRAM         + 03413         000016 </td <td>PROGRAM         + 031421         0000007           PROGRAM         + 034430         0000133           PROGRAM         + 03425         0000131           PROGRAM         + 03425         0000131           PROGRAM         + 03425         0000131           PROGRAM         + 03427         0000131           PROGRAM         + 03427         0000131           PROGRAM         + 03427         0000131           PROGRAM         + 03427         00001131           PROGRAM         + 03427         0000112           PROGRAM         + 03427         0000112           PROGRAM         + 03427         0000112           PROGRAM         + 03427         000011           PROGRAM         + 03422         000005           PROGRAM         + 03424         000001           PROGRAM         + 03422         000001           PROGRAM         + 03422         000001           PROGRAM         + 03415         00000</td> <td>PROGRAM         + 031421         0000007           PROGRAM         + 034430         00000433           PROGRAM         + 034225         00000131           PROGRAM         + 0342616         00000131           PROGRAM         + 0342616         00000131           PROGRAM         + 0342616         00000131           PROGRAM         + 034274         00000131           PROGRAM         + 034274         00000131           PROGRAM         + 034274         00000142           PROGRAM         + 034274         00000142           PROGRAM         + 034274         00000142           PROGRAM         + 034274         00000142           PROGRAM         + 034274         00000164           PROGRAM         + 034274         0000017           PROGRAM         + 034274         0000017           PROGRAM         + 034415         0000017           PROGRAM         + 03415         0000017           PROGRAM         + 03415         0000017           PROGRAM         + 03415         0000017           PROGRAM         + 03415         0000017           COMHON         + 03415         0000011           COMHON</td> <td>PROGRAM         + 031421         0000067           PROGRAM         + 034430         00000633           PROGRAM         + 034525         0000063           PROGRAM         + 034525         0000063           PROGRAM         + 034525         0000063           PROGRAM         + 034525         0000063           PROGRAM         + 034526         0000064           PROGRAM         + 034546         0000064           PROGRAM         + 034546         0000064           PROGRAM         + 034546         0000065           PROGRAM         + 03452         0000065           PROGRAM         + 03467         0000065           PROGRAM         + 03467         0000067           PROGRAM         + 03416         0000067           PROGRAM         + 03416         0000011           PROGRAM         + 03412         0000017           PROGRAM         + 03413         0000017           PROGRAM         + 03413         0000017           PROGRAM         + 03413         0000017           PROGRAM         + 03413         0000017           COHHON         + 03413         0000011           COHHON         + 03412</td> <td>PROGRAM         + 031421         0000067           PROGRAM         + 034430         0000133           PROGRAM         + 03425         0000133           PROGRAM         + 03425         0000131           PROGRAM         + 03425         0000131           PROGRAM         + 03427         0000131           PROGRAM         + 03427         0000131           PROGRAM         + 03427         0000143           PROGRAM         + 03427         000110           PROGRAM         + 03427         000110           PROGRAM         + 03427         0001064           PROGRAM         + 03427         0001064           PROGRAM         + 03427         0001067           PROGRAM         + 03422         0001011           PROGRAM         + 03413         0001011           PROGRAM         + 03415         0001011           PROGRAM         + 03415         0001011           COHHON         + 03415</td>	PROGRAM         + 031421         0000007           PROGRAM         + 034430         0000133           PROGRAM         + 03425         0000131           PROGRAM         + 03425         0000131           PROGRAM         + 03425         0000131           PROGRAM         + 03427         0000131           PROGRAM         + 03427         0000131           PROGRAM         + 03427         0000131           PROGRAM         + 03427         00001131           PROGRAM         + 03427         0000112           PROGRAM         + 03427         0000112           PROGRAM         + 03427         0000112           PROGRAM         + 03427         000011           PROGRAM         + 03422         000005           PROGRAM         + 03424         000001           PROGRAM         + 03422         000001           PROGRAM         + 03422         000001           PROGRAM         + 03415         00000	PROGRAM         + 031421         0000007           PROGRAM         + 034430         00000433           PROGRAM         + 034225         00000131           PROGRAM         + 0342616         00000131           PROGRAM         + 0342616         00000131           PROGRAM         + 0342616         00000131           PROGRAM         + 034274         00000131           PROGRAM         + 034274         00000131           PROGRAM         + 034274         00000142           PROGRAM         + 034274         00000142           PROGRAM         + 034274         00000142           PROGRAM         + 034274         00000142           PROGRAM         + 034274         00000164           PROGRAM         + 034274         0000017           PROGRAM         + 034274         0000017           PROGRAM         + 034415         0000017           PROGRAM         + 03415         0000017           PROGRAM         + 03415         0000017           PROGRAM         + 03415         0000017           PROGRAM         + 03415         0000017           COMHON         + 03415         0000011           COMHON	PROGRAM         + 031421         0000067           PROGRAM         + 034430         00000633           PROGRAM         + 034525         0000063           PROGRAM         + 034525         0000063           PROGRAM         + 034525         0000063           PROGRAM         + 034525         0000063           PROGRAM         + 034526         0000064           PROGRAM         + 034546         0000064           PROGRAM         + 034546         0000064           PROGRAM         + 034546         0000065           PROGRAM         + 03452         0000065           PROGRAM         + 03467         0000065           PROGRAM         + 03467         0000067           PROGRAM         + 03416         0000067           PROGRAM         + 03416         0000011           PROGRAM         + 03412         0000017           PROGRAM         + 03413         0000017           PROGRAM         + 03413         0000017           PROGRAM         + 03413         0000017           PROGRAM         + 03413         0000017           COHHON         + 03413         0000011           COHHON         + 03412	PROGRAM         + 031421         0000067           PROGRAM         + 034430         0000133           PROGRAM         + 03425         0000133           PROGRAM         + 03425         0000131           PROGRAM         + 03425         0000131           PROGRAM         + 03427         0000131           PROGRAM         + 03427         0000131           PROGRAM         + 03427         0000143           PROGRAM         + 03427         000110           PROGRAM         + 03427         000110           PROGRAM         + 03427         0001064           PROGRAM         + 03427         0001064           PROGRAM         + 03427         0001067           PROGRAM         + 03422         0001011           PROGRAM         + 03413         0001011           PROGRAM         + 03415         0001011           PROGRAM         + 03415         0001011           COHHON         + 03415
РАОСКАН         + 031421         0000007           РАОСКАН         + 031421         00000023           РАОСКАН         + 03447         0000133           РАОСКАН         + 03427         0000433           РАОСКАН         + 03427         0000131           РАОСКАН         + 03427         0000131           РАОСКАН         + 03427         0000131           РАОСКАН         + 03474         000011           РАОСКАН         + 03474         000011           РАОСКАН         + 03407         000011           РАОСКАН         + 03407         000011           РАОСКАН         + 03407         000011           РАОСКАН         + 03407         000011           РАОСКАН         + 03412         000011           РАОСКАН         + 03412         000011           РАОСКАН         + 03412         000011           РАОСКАН         + 03413         000011           РАОСКАН         + 03413         000010           СОННОИ         + 03413         000010           СОННОИ         + 03413         000010           СОННОИ         + 03414         000011           СОННОИ         + 03414         000011	PROGRAM         + 031421         0000007           PROGRAM         + 031421         00000023           PROGRAM         + 034472         0000603           PROGRAM         + 034472         0000063           PROGRAM         + 034272         0000063           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000114           PROGRAM         + 034274         0000114           PROGRAM         + 034274         0000114           PROGRAM         + 03412         0000162           PROGRAM         + 03412         000017           COHHON         + 03412         0000017           COHHON         + 03412         000001           COHHON         + 03412         000001           COHHON         + 03412 <td< td=""><td>РАОСКАН         + 031421         00000007           РАОСКАН         + 031421         00000007           РАОСКАН         + 03422         00000033           РАОСКАН         + 03422         000000131           РАОСКАН         + 03422         000000131           РАОСКАН         + 03424         00000131           РАОСКАН         + 03424         00000131           РАОСКАН         + 03424         00000142           РАОСКАН         + 03424         0000014           РАОСКАН         + 03415         0000017           РАОСКАН         + 03415         0000017           РАОСКАН         + 03415         0000017           РАОСКАН         + 03415         0000017           СОННОМ         + 03415         0000017           СОННОМ         + 03415         0000017           СОННОМ         + 03415         0000011           СОННОМ         + 03415<td>РАОСКАН         + 031421         0000007           РАОСКАН         + 031421         00000023           РАОСКАН         + 03421         00000233           РАОСКАН         + 03425         00000131           РАОСКАН         + 03425         00000131           РАОСКАН         + 03427         00000131           РАОСКАН         + 03427         00000131           РАОСКАН         + 03427         00000142           РАОСКАН         + 03427         0000017           РАОСКАН         + 03437         0000017           РАОСКАН         + 03412         0000017           РАОСКАН         + 03412         0000017           РАОСКАН         + 03412         0000017           РАОСКАН         + 03412         0000017           СОННОИ         + 03415         0000017           СОННОИ         + 03415         0000011           СОННОИ         + 03415</td><td>PROGRAM         + 031421         0000007           PROGRAM         + 031421         00000023           PROGRAM         + 0342072         00000431           PROGRAM         + 0342072         00000431           PROGRAM         + 0342072         00000431           PROGRAM         + 0342072         0000064           PROGRAM         + 0342072         00000131           PROGRAM         + 034076         0000014           PROGRAM         + 034076         0000014           PROGRAM         + 034076         0000014           PROGRAM         + 034076         0000015           PROGRAM         + 034076         0000016           PROGRAM         + 03407         0000017           PROGRAM         + 03412         0000017           PROGRAM         + 03412         0000017           PROGRAM         + 03413         0000017           COHHON         + 03413         0000011           COHHON         + 03</td><td>PROGRAM         + 031421         0000007           PROGRAM         + 031421         000000233           PROGRAM         + 034472         00006233           PROGRAM         + 034472         00006233           PROGRAM         + 034214         0000131           PROGRAM         + 034214         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         000015           PROGRAM         + 033274         000015           PROGRAM         + 03316         000015           PROGRAM         + 03317         000001           PROGRAM         + 03413         000001           PROGRAM         + 03413         000001           PROGRAM         + 03413         000001           PROGRAM         + 03415         000001           PROGRAM         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         <t< td=""></t<></td></td></td<>	РАОСКАН         + 031421         00000007           РАОСКАН         + 031421         00000007           РАОСКАН         + 03422         00000033           РАОСКАН         + 03422         000000131           РАОСКАН         + 03422         000000131           РАОСКАН         + 03424         00000131           РАОСКАН         + 03424         00000131           РАОСКАН         + 03424         00000142           РАОСКАН         + 03424         0000014           РАОСКАН         + 03415         0000017           РАОСКАН         + 03415         0000017           РАОСКАН         + 03415         0000017           РАОСКАН         + 03415         0000017           СОННОМ         + 03415         0000017           СОННОМ         + 03415         0000017           СОННОМ         + 03415         0000011           СОННОМ         + 03415 <td>РАОСКАН         + 031421         0000007           РАОСКАН         + 031421         00000023           РАОСКАН         + 03421         00000233           РАОСКАН         + 03425         00000131           РАОСКАН         + 03425         00000131           РАОСКАН         + 03427         00000131           РАОСКАН         + 03427         00000131           РАОСКАН         + 03427         00000142           РАОСКАН         + 03427         0000017           РАОСКАН         + 03437         0000017           РАОСКАН         + 03412         0000017           РАОСКАН         + 03412         0000017           РАОСКАН         + 03412         0000017           РАОСКАН         + 03412         0000017           СОННОИ         + 03415         0000017           СОННОИ         + 03415         0000011           СОННОИ         + 03415</td> <td>PROGRAM         + 031421         0000007           PROGRAM         + 031421         00000023           PROGRAM         + 0342072         00000431           PROGRAM         + 0342072         00000431           PROGRAM         + 0342072         00000431           PROGRAM         + 0342072         0000064           PROGRAM         + 0342072         00000131           PROGRAM         + 034076         0000014           PROGRAM         + 034076         0000014           PROGRAM         + 034076         0000014           PROGRAM         + 034076         0000015           PROGRAM         + 034076         0000016           PROGRAM         + 03407         0000017           PROGRAM         + 03412         0000017           PROGRAM         + 03412         0000017           PROGRAM         + 03413         0000017           COHHON         + 03413         0000011           COHHON         + 03</td> <td>PROGRAM         + 031421         0000007           PROGRAM         + 031421         000000233           PROGRAM         + 034472         00006233           PROGRAM         + 034472         00006233           PROGRAM         + 034214         0000131           PROGRAM         + 034214         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         000015           PROGRAM         + 033274         000015           PROGRAM         + 03316         000015           PROGRAM         + 03317         000001           PROGRAM         + 03413         000001           PROGRAM         + 03413         000001           PROGRAM         + 03413         000001           PROGRAM         + 03415         000001           PROGRAM         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415         <t< td=""></t<></td>	РАОСКАН         + 031421         0000007           РАОСКАН         + 031421         00000023           РАОСКАН         + 03421         00000233           РАОСКАН         + 03425         00000131           РАОСКАН         + 03425         00000131           РАОСКАН         + 03427         00000131           РАОСКАН         + 03427         00000131           РАОСКАН         + 03427         00000142           РАОСКАН         + 03427         0000017           РАОСКАН         + 03437         0000017           РАОСКАН         + 03412         0000017           РАОСКАН         + 03412         0000017           РАОСКАН         + 03412         0000017           РАОСКАН         + 03412         0000017           СОННОИ         + 03415         0000017           СОННОИ         + 03415         0000011           СОННОИ         + 03415	PROGRAM         + 031421         0000007           PROGRAM         + 031421         00000023           PROGRAM         + 0342072         00000431           PROGRAM         + 0342072         00000431           PROGRAM         + 0342072         00000431           PROGRAM         + 0342072         0000064           PROGRAM         + 0342072         00000131           PROGRAM         + 034076         0000014           PROGRAM         + 034076         0000014           PROGRAM         + 034076         0000014           PROGRAM         + 034076         0000015           PROGRAM         + 034076         0000016           PROGRAM         + 03407         0000017           PROGRAM         + 03412         0000017           PROGRAM         + 03412         0000017           PROGRAM         + 03413         0000017           COHHON         + 03413         0000011           COHHON         + 03	PROGRAM         + 031421         0000007           PROGRAM         + 031421         000000233           PROGRAM         + 034472         00006233           PROGRAM         + 034472         00006233           PROGRAM         + 034214         0000131           PROGRAM         + 034214         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         000015           PROGRAM         + 033274         000015           PROGRAM         + 03316         000015           PROGRAM         + 03317         000001           PROGRAM         + 03413         000001           PROGRAM         + 03413         000001           PROGRAM         + 03413         000001           PROGRAM         + 03415         000001           PROGRAM         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03415 <t< td=""></t<>
РАОСКАН         + 034421         0000007           РАОСКАН         + 034421         00000023           РАОСКАН         + 034472         0000623           РАОСКАН         + 034472         0000023           РАОСКАН         + 034472         0000023           РАОСКАН         + 034472         0000023           РАОСКАН         + 034472         0000013           РАОСКАН         + 033745         0000015           РАОСКАН         + 033746         0000015           РАОСКАН         + 033076         0000016           РАОСКАН         + 033076         0000016           РАОСКАН         + 033076         0000016           РАОСКАН         + 033076         0000016           РАОСКАН         + 033077         0000017           РАОСКАН         + 033124         0000017           РАОСКАН         + 034126         0000017           РАОСКАН         + 03412         0000017           РАОСКАН         + 03412         0000017           СОННОИ         + 03412         0000017           СОННОИ         + 03412         000001           СОННОИ         + 03412         000001           СОННОИ         + 03412	PROGRAM         + 034421         0000007           PROGRAM         + 034421         00000023           PROGRAM         + 034472         0000623           PROGRAM         + 034472         0000623           PROGRAM         + 034472         0000623           PROGRAM         + 034451         0000131           PROGRAM         + 033246         0000131           PROGRAM         + 033746         000015           PROGRAM         + 033746         000015           PROGRAM         + 03324         000015           PROGRAM         + 03324         000015           PROGRAM         + 03324         000015           PROGRAM         + 03324         000015           PROGRAM         + 03316         000015           PROGRAM         + 03317         000005           PROGRAM         + 03312         000005           PROGRAM         + 03412         000007           COHHON         + 03412         000007           COHHON         + 03415         000001           COHHON         + 03415         000001           COHHON         + 03421         000001           COHHON         + 03421         000001 </td <td>РАОСКАН         + 034421         0000067           РАОСКАН         + 034421         00000623           РАОСКАН         + 034472         0000623           РАОСКАН         + 034472         0000623           РАОСКАН         + 034244         000013           РАОСКАН         + 032745         000013           РАОСКАН         + 032745         000013           РАОСКАН         + 033740         000015           РАОСКАН         + 03374         000015           РАОСКАН         + 03374         000011           РАОСКАН         + 03374         000011           РАОСКАН         + 03374         000011           РАОСКАН         + 03374         000011           РАОСКАН         + 03372         000011           РАОСКАН         + 03413         000011           РАОСКАН         + 03413         000001           РАОСКАН         + 03413         000001           РАОСКАН         + 03413         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001<td>PROGRAM         + 034421         0000007           PROGRAM         + 034421         00000023           PROGRAM         + 034472         0000403           PROGRAM         + 034472         0000403           PROGRAM         + 034272         0000623           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000142           PROGRAM         + 034274         0000142           PROGRAM         + 034274         0000142           PROGRAM         + 034267         0000167           PROGRAM         + 034267         000011           PROGRAM         + 034267         000011           PROGRAM         + 034267         0000017           PROGRAM         + 034267         0000017           PROGRAM         + 034267         0000011           PROGRAM         + 03426         0000011           PROGRAM         + 03426         0000011           PROGRAM         + 03425         0000011           COHHON         + 03415&lt;</td><td>РАОСКАН         + 034421         000000           РАОСКАН         + 034421         000000           РАОСКАН         + 034472         0000623           РАОСКАН         + 034472         0000063           РАОСКАН         + 034472         000063           РАОСКАН         + 034472         000063           РАОСКАН         + 034745         000061           РАОСКАН         + 034745         000064           РАОСКАН         + 034746         000064           РАОСКАН         + 033076         000064           РАОСКАН         + 033076         0000667           РАОСКАН         + 033076         0000667           РАОСКАН         + 033076         0000667           РАОСКАН         + 033076         0000667           РАОСКАН         + 03467         000067           РАОСКАН         + 03467         000067           РАОСКАН         + 03413         000001           СОННОИ         + 03415</td><td>РАОСКАН         + 034421         0000007           РАОСКАН         + 034421         00000023           РАОСКАН         + 034472         0000623           РАОСКАН         + 034472         0000623           РАОСКАН         + 034472         0000623           РАОСКАН         + 034472         0000623           РАОСКАН         + 034474         000013           РАОСКАН         + 034474         000013           РАОСКАН         + 03474         000013           РАОСКАН         + 03474         000015           РАОСКАН         + 03374         000015           РАОСКАН         + 03374         000015           РАОСКАН         + 03374         000015           РАОСКАН         + 03314         000015           РАОСКАН         + 03417         000011           РАОСКАН         + 03413         000001           РАОСКАН         + 03413         000001           РАОСКАН         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001<!--</td--></td></td>	РАОСКАН         + 034421         0000067           РАОСКАН         + 034421         00000623           РАОСКАН         + 034472         0000623           РАОСКАН         + 034472         0000623           РАОСКАН         + 034244         000013           РАОСКАН         + 032745         000013           РАОСКАН         + 032745         000013           РАОСКАН         + 033740         000015           РАОСКАН         + 03374         000015           РАОСКАН         + 03374         000011           РАОСКАН         + 03374         000011           РАОСКАН         + 03374         000011           РАОСКАН         + 03374         000011           РАОСКАН         + 03372         000011           РАОСКАН         + 03413         000011           РАОСКАН         + 03413         000001           РАОСКАН         + 03413         000001           РАОСКАН         + 03413         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001           СОННОМ         + 03415         000001 <td>PROGRAM         + 034421         0000007           PROGRAM         + 034421         00000023           PROGRAM         + 034472         0000403           PROGRAM         + 034472         0000403           PROGRAM         + 034272         0000623           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000142           PROGRAM         + 034274         0000142           PROGRAM         + 034274         0000142           PROGRAM         + 034267         0000167           PROGRAM         + 034267         000011           PROGRAM         + 034267         000011           PROGRAM         + 034267         0000017           PROGRAM         + 034267         0000017           PROGRAM         + 034267         0000011           PROGRAM         + 03426         0000011           PROGRAM         + 03426         0000011           PROGRAM         + 03425         0000011           COHHON         + 03415&lt;</td> <td>РАОСКАН         + 034421         000000           РАОСКАН         + 034421         000000           РАОСКАН         + 034472         0000623           РАОСКАН         + 034472         0000063           РАОСКАН         + 034472         000063           РАОСКАН         + 034472         000063           РАОСКАН         + 034745         000061           РАОСКАН         + 034745         000064           РАОСКАН         + 034746         000064           РАОСКАН         + 033076         000064           РАОСКАН         + 033076         0000667           РАОСКАН         + 033076         0000667           РАОСКАН         + 033076         0000667           РАОСКАН         + 033076         0000667           РАОСКАН         + 03467         000067           РАОСКАН         + 03467         000067           РАОСКАН         + 03413         000001           СОННОИ         + 03415</td> <td>РАОСКАН         + 034421         0000007           РАОСКАН         + 034421         00000023           РАОСКАН         + 034472         0000623           РАОСКАН         + 034472         0000623           РАОСКАН         + 034472         0000623           РАОСКАН         + 034472         0000623           РАОСКАН         + 034474         000013           РАОСКАН         + 034474         000013           РАОСКАН         + 03474         000013           РАОСКАН         + 03474         000015           РАОСКАН         + 03374         000015           РАОСКАН         + 03374         000015           РАОСКАН         + 03374         000015           РАОСКАН         + 03314         000015           РАОСКАН         + 03417         000011           РАОСКАН         + 03413         000001           РАОСКАН         + 03413         000001           РАОСКАН         + 03413         000001           СОННОИ         + 03413         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001           СОННОИ         + 03415         000001<!--</td--></td>	PROGRAM         + 034421         0000007           PROGRAM         + 034421         00000023           PROGRAM         + 034472         0000403           PROGRAM         + 034472         0000403           PROGRAM         + 034272         0000623           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         0000131           PROGRAM         + 034274         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KEAL!	PAUCKAN	1000/31		
HWFLOT	PROGRAM	+052051	0000031	
SINSTOP	PROGRAM	4152102		
ATTA	PAGGRAM	+052110		
EXP	PROCEAM	+052270		
SIMIDLE	PROGRAM	+052356		
G010ER=	PROGRAM	+052377	0000014	
SINERR.	PROGRAM	+ 052413	00000015	
ACOSTH	PROGRAM	+ 352446		
SINCOS=	PROGRAM	+052561	0000071	
SYS, RM	PADGRAM	+ 052716	00000044	
SYSERIO	PROGRAM	+052767		
F025Y5=	PROGRAM	+053045	5450000	
SYSAIDS	PAGGRAN	+ 653707	1000000	
DPFN.RM	PROGRAM	1027770	000000	
PUT. SQ	PROGRAM	05442		
CLSF .RM	PROCRAM	+055656	0000023	
25.7	PACCEAN	1002901		
LXER-SQ	PROGRAM	+056047	0000210	
3121.52	PROGREM	0		
ERR. RM	PROGRAM	+056373	0	
CIO.RM	PRESENT	+056773	2500000	
OPERSON	PROGRAM	+057166		
CHH3.53	PROGRAM	+057203	0	
0503° 24	PROGRAM	+ 057212	000000	
MCT. RM	PROCKAM	+ 057301		
CLSV-59	PROGRAM	+057564	0000131	
MCVE.RM	PROCRAM	-\$12150+	8	
RLE2.RM	PROGRAM	+060001		
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OPES-FO	номксэ	+ 061659		
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JMP3.RM	COMMON	+ 061670	000000	
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	C ZDTEO = 0.00 FT/SEC C ZDTLQ = -230.86 FT/SEC																•

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TRUNK LINE PATCHING IS VI3 TO 400 V15 TO 413 V60 TO 450 V61 TO 450	RESERVATION ERROR CODE = 033050505050505050505050505050505050505		

14.29.57.4LPGS.1100.CH140000.4T.	
14.29.54.74.37613400 7300 A3 PARKERE J003	
14.31.51. 19:125 CP SECONDS COMPILATION TIME	
14.31.53.40AD (LGD)	
48S.	
14.33.32. PAUSE GO TO RESERVE HYBRIG EQUIPMENT	
14.34.05.60 PAUSE WAIT FOR SENSE LINE 5 HIGH	
14.34.35.60 PAUSE GO TO ENTER REAL TIME	
14.34.51. PAUSE SET SEVSE LINE 0 LOW TO RESTAR	
14.36.34.50 14.36.34.50	
14.36.35.5FROR MOJE = 4. AUDREUS = 016975	
14.36.45.3P 30036997 WORDS - FILE DUIPUT : 00 77	
COOK AND I LIMOOD HAY USEU!	
11.433 SEC.	
59.975 SEC. DATE 01/1	
14.35.45.EJ END UF JUB, 62	

APPENDIX C. CODE FOR TESTING ADCS AND DACS

BOK DYNAMICS, INC.

```
NAAGS+T10+CM70000+RT.
ACCT (PN=PARKERL .PBC=7487613R00 .CC=7300 .OP=A3 .JN=J002)
FTNH.
SEGLOAD.
LGO.
PROGRAM TRDISIO (OUTPUT, HFILE, TAPE6=OUTPUT)
     PROGRAM TO CHECK DADIOS DISCRETES. THIS IS ACCOMPLISHED BY PATCHING
     INPUT AND OUTPUT DISCRETE WORDS TOGETHER AT THE AD/4 LOGIC PANNEL
     THE OUTPUT DISCRETE COUNTS UP CYCLICLY FROM 0 TO 2**16-1 AND THEN
C
     BEGINS OVER WITH O.
     PROGRAM VARIABLES
                     ERROR CODE FOR RESERVATION
                     0=NOERROR . GT. 0=RESERVATION ERROR
                    REAL TIME MODE
                     0=IN REAL TIME, ISTAT.GT.O NOT IN REAL TIME
        IIDIS
                     CDC-6600 SENSE LINE DISCRETE (16 BIT) IIDIS=IBACK
                    CDC-6600 CONTROL LINE DISCRETE (16 BIT) TODIS=TOUT
        IODIS
        MAXLINE
                     MAXIMUM LINES PER PAGE
        MAXPAGE
                     MAXIMUM PAGES OF PRINTOUT
        IOUT .
                     A COUNTER WHICH PRODUCES OUTPUT FOR TESTING
        LEN
                     NUMBER OF TRUNKING STATION CONNECTOR PAIRS USED
                     1-TH TRUNCKING STATION CONNECTOR INPUT
       PIN(I)
       POUT (I)
                  1-TH TRUNCKING STATION CONNECTOR OUTPUT
     DADIOS PATCHING REQUIREMENTS (ONE TIDIS AND ONE TODIS)
C
                         FORTRAN
C
       TRUNKING
                                                  AD/4 PATCH
        V-50 TO W-50
                        FOR /IDIS2/1.IIDIS
                                             TROO-TRO7 AND TR20-TR27
       V-52 TO W-50 FOR /IDIS2/1.IIDIS
                                             TR40-TR47 AND TR60-TR67
       V-50 TO W-51
                                             TROO-TRO7 AND TR20-TR27
                       FOR /IDIS2/2, IIDIS
                        FOR /IDIS2/2, IIDIS
       V-52 TO W-51
                                            TR40-TR47 AND TR60-TR67
      V-51 TO W-60
                        FOR /ODISZ/1, IODIS
                                             TR10-TR17 AND TR30-TR37
C
        V-53 TO W-60
                        FOR /ODIS2/1, IODIS
                                             TR50-TR57 AND TR70-TR77
                                            TR10-TR17 AND TR30-TR37
      V-51 TO W-61
                        FOR /00152/2,10015
                        FOR /ODIS2/2, IODIS
        V-53 TO W-61
                                            TR50-TR57 AND TR70-TR77
C
     INTEGER PIN(8), POUT(8)
     COMMON/INTCOM/IOUT, LINE, MAXLINE, ISAVEIN(100)
     INTERRUPT (I=1.R=50.T=500.P=1000)
     COMMON/#ODISZ/1,11015
C
    INITIALIZATION
C
     IOUT=0
     LINE=0
     MAXLINE=60
     MAXPAGE=10
     IPAGE=0
```

LEN=4

PIN(1)=3RV50 PIN(2)=3RV51

PIN(3)=3RV52

```
PIN(4)=3RV53
      CALL RESERVE (IERR)
      WRITE (6,1000) IERR
      IF (IERR.NE.0) STOP
C
C
    CHECK PATCHING STATUS
      CALL PATSTAT (PIN. POUT, LEN)
   DO 10 I=1,LEN
10 WRITE(6,8000)PIN(I),POUT(I)
     REAL TIME

CALL SIMRUN(ISTAT)

WRITE(6.2000) ISTAT
C
C
      CALL REMARK (17H JOB IN REAL TIME)
   C
C
  25 CONTINUE
     CALL BHOLD
LINE=0
   WRITE(6,5000)
IPAGE=IPAGE+1
IF (IPAGE.EQ.10) GO TO 20
I1=IOUT-MAXLINE+1

C
DO 30 I=I1.IOUT
     CALL BITS (I. IBITOUT)
   LINE=LINE+1
 IDUMY=ISAVEIN(LINE)
     CALL BITS (IDUMY, IRITIN)
   30 WRITE (6,4000) I, IBITOUT, IDUMY, IBITIN
   LINE=0
CALL SIMGO
GO TO 25
20 WRITE(6.3000)
CALL REMARK(15H RETURN TO MAIN)
     LINE=0
 1000 FORMAT (24H1RESERVATION ERROR CODE=,020)
 2000 FORMAT (18H REAL TIME STATUS= ,020)
 3000 FORMAT (1H0 + *PROGRAM TERMINATED NORMALLY *)
 4000 FORMAT (10X, 110, 5X, 1611, 5X, 110, 5X, 1611)
 5000 FORMAT (1H1)
 8000 FORMAT ( / # OTRUNK LINE PATCHING IS * + R3 + TO * + R3)
      SUBROUTINE SUB1
C
      REAL TIME INTERRUPT SUBROUTINE
      COMMON/INTCOM/IOUT, LINE, MAXLINE, ISAVEIN(100)
     COMMON/*IDIS2/1.IIDIS
    COMMON/*IDIS2/1.IIDIS
COMMON/*ODIS2/1.IODIS
```

```
IODIS=IOUT
        IN=IIDIS
        LINE=LINE+1
        ISAVEIN(LINE)=IN
        IF (IOUT.GE.2**16-1) IOUT=0
         IF (IOUT.LT.2**16-1) IOUT=IOUT+1
         IF (LINE.GE.MAXLINE) CALL SIMHOLD
         CALL SIMIDLE
         END.
         SUBROUTINE BITS (IIN, IBIT)
         PPOGRAM TO CONVEPT BASE TEN TO BITS
      THE LEAST SIGNIFICANT BIT IS STORED IN BIT (1)
        PROGRAM VARIBLES
     IIN A NUMBER BASE TEN
IBIT(I) I-TH BIT OF A BINARY NUMBER
MAXBIT MAXIMUM BITS CONVERTED IN INPUT SENSE LINE
C
      INTEGER OLDNUM
DIMENSION IBIT(16)
MAXBIT=16
DO 1 I=1, MAXBIT
TRIT(I)=0
     1 IBIT(I)=0
OLDNUM=IIN
    OLDNUM=IIN
DO 2 I=1, MAXBIT
NEWNUM=OLDNUM/2
IBIT(I)=OLDNUM-2*NEWNUM
OLDNUM=NEWNUM
2 CONTINUE
IHALF=MAXBIT/2
DO 3 I=1, IHALF
ITEMP=IBIT(I)
IBIT(I)=IBIT(MAXBIT+1-I)
3 IBIT(MAXBIT+1-I)=ITEMP
RETURN
END.
  RTREE TRDISIO(0), SUB1(1)
    GLOBAL INTCOM
```

```
NEEGS.T25.CM70000.RT.
ACCT (PN=PARKERL , PBC=7487G13R00 , CC=7300 , OP=A3 , JN=J002)
FTNH.
SEGLOAD.
LGO.
0000000000000000000000
      PROGRAM TRALGIO (OUTPUT, HFILE, TAPE6=OUTPUT)
      PROGRAM TO TEST ANALOG SIGNALS BETWEEN AD/4 AND CDC/6600. THIS TASK
     IS ACCOMPLISHED BY TURNING THE ANALOG SIGNAL AROUND AT THE AD/4 AND
      COMPAREING DIFFERENCE UPON RETURN TO THE CDC76600. THE PROGRAM TEST
      FOR ERRORS GREATER THAN FIVE PERCENT.
      NOTE ADCS AND DACS ARE IN GROUPS OF 16. 1-16, 17-32, 33-48, 49-64.
      FLOATING POINT ANALOG SIGNALS ARE SCALED GE -1.0 AND LE +1.0.
      INTEGER ANALOG SIGNALS ARE SCALED GE -32767 AND LE +32767(14 BIT).
      PROGRAM VARIABLES
                        ERROR CODE FOR RESERVATION
       IERR
                        0=NOERROR, GT. 0=RESERVATION ERROR
                        REAL TIME MODE
         ISTAT
                        0=IN REAL TIME, ISTAT.GT.O NOT IN REAL TIME
      OUT THE DAC VARIABLE
       BACK
THE ADC VARIABLE
BIGDIFF
MAXIMUM ALLOWABLE DIFFERENCE IN ADC AND DAC
DIFF
ACTUAL COMPUTED DIFFERENCE IN ADC AND DAC
         LINE NUMBER OF LINES OF PRINTOUT IN EXECUTION
         MAXLINE MAXIMUM NUMBER OF I
                        MAXIMUM NUMBER OF LINES PRINTED
         STATUS THE HRTM STATUS WORD

LOOP NUMBER OF ATTEMPTS TO EQUATE ADC AND DAC
C
·C
         A MASKING WORD USED IN COJUNCTION WITH THE
                       STAT FUNCTION
      DADIOS PATCHING REQUIREMENTS (AD/4 FIELD 3. 4TH GROUP ADC AND DAC)
C
           TRUNKING
                                  FORTRAN
         TRUNKING FORTRAN AUX FAICH W-03 TO V-06 FOR /*ADC1/49.ADC TR10-TR17 AND TR30-TR37 W-13 TO V-07 FOR /*DAC1/49.DAC TR50-TR57 AND TR70-TR77
                                                          AD/4 PATCH
      THE FIRST ADC IN EACH GROUP OF 16 CORRESPONDS TO AD/4 TR-10.
      THE FIRST DAC IN EACH GROUP OF 16 CORRESPONDS TO AD/4 TR-50.
C
      COMMON/INTCOM/OUT, LOOP, BACK (16), BIGDIFF, DIFF (16), STATUS, J
      INTERRUPT (I=1,R=100,T=10000)
      COMMON/#ADC1/ 1,ADC(16)
      COMMON/*DAC1/ 1.DAC(16)
C
      INITIALIZATION
      BIGDIFF=.001
      OUT=-1.5
```

LOOP=0 LINE=0

MAXLINE=400 IWRITE=0

J=777777777777777778 CALL RESERVE(IERR)

```
WRITE (6.100) STOP
IF (IERR.NE.0) STOP
REAL TIME

THRUN (ISTAT)

TEAL TIME)
    CALL SIMRUN(ISTAT)
WRITE(6.2000)ISTAT
CALL REMARK(17H JOB IN REAL TIME)
WRITE(6.5000)
25 CONJINUE
CALL BHOLD
LINE=LINE+1
      IF (LINE.GT.MAXLINE)GO TO 50
TIMELFT=STATUS.A.3777777B
WRITE(6.4000)OUT.BACK.LOOP
WRITE(6.6000)DIFF
OUT=OUT+0.00
   WRITE(6,6000)DIFF

OUT=OUT+0.01

IF(OUT.GT.1.50)OUT=0.0

LOOP=0

CALL SIMGO

GO TO 25

50 WRITE(6,3000)

STOP
 1000 FORMAT (24H) RESERVATION ERROR CODE=,020)
2000 FORMAT (18H REAL TIME STATUS=,020)
 3000 FORMAT (1HO, *PROGRAM TERMINATED ON MAX LINE*)
 4000 FORMAT(1X.17F7.4.13)
5000 FORMAT(1H1)
6000 FORMAT(8X.16F7.4)
END
END
END
     SUBROUTINE SUBI

REAL TIME INTERRUPT SUBROUTINE
     Additional residence of the second
      COMMON/INTCOM/OUT, LOOP, BACK (16), BIGDIFF, DIFF (16), STATUS, J
       COMMON/#ADC1/ 1,ADC(16)
      COMMON/*DAC1/ 1,DAC(16)
        IERR=0
     DO 1 I=1.16.
DAC(I)=OUT
1 BACK(I)=ADC(I)
      COMPUTE DIFFERENCE IN ADC AND DAC VALUES

DO 2 I=1.16
DIFF(I)=ABS(OUT)-ABS(BACK(I))
IF(ABS(DIFF(I)).GT.BIGDIFF) IERR=1
2 CONTINUE
C
C
      2 CONTINUE
IF (IERR.EQ.0) CALL SIMHOLD
STATUS=STAT(J)
     2 CONTINUE
     LOOP=LOOP+1
STATUS=STAT(J)
     STATUS=STAT(J)
IF(LOOP.EO.10)CALL SIMHOLD
      "CALL SIMIDLE
       END
00000000000000000000000
```